

FOR MAKING

**NON-EXCISABLE
ESSENCE****GINGER WINE**

ORANGE

USE

**STEVENSON & HOWELL'S
RECTIFIED GINGERINE**

(Made from Jamaica Ginger only) and

RECTIFIED CAPSICINEBoth Guaranteed made with the use of Pure Rectified
Spirit only.

SAMPLES AND QUOTATIONS UPON APPLICATION TO

STEVENSON & HOWELL95^A Southwark Street, LONDON, S.E.**DISTILLERY—OLD PARIS GARDENS, S.E.**

FORD, SHAPLAND & CO.
CHEMISTS' AND GENERAL PRINTERS, LITHOGRAPHERS, ENGRAVERS, ETC.
6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

STICKY FLY PAPERS

In Two Sizes, to Sell at $\frac{1}{2}$ d. and 1d. each.

UNQUESTIONABLY SUPERIOR TO ALL OTHERS.

ALSO CHEMICALLY PREPARED FLY PAPERS.
PRICES ON APPLICATION.

CABINET PAPER FOR THE WATER-CLOSET.

In Registered Shape Boxes and in Packets. SAMPLES AND PRICES ON APPLICATION.

Price Lists, Pamphlets, Circulars, Billheads, Memorandums, Cards, and all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.

AGENTS for REGISTRATION of TRADE MARKS.

SOLE PROPRIETORS—

ROCKE, TOMPSITT & CO.,

MELBOURNE,



And 119, 120 London Wall,

LONDON, E.C.

"INSECTIBANE" HAS ATTAINED AN ENORMOUS SALE IN AUSTRALIA.

TO THE WEED KILLER TRADE.

For Destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, Meadows, &c.

We desire to point out the special advantages which the sale of our "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks, Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on twelve gallons in 1 and 2 gallon tins, and on 10 gallons in drums and upwards, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full prices allowed when returned.

Trade and Export Terms on application. The most Liberal Terms to the Trade.

RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons,

1/4 per gallon; in 40-gallon casks, 1/3 per gallon.

TESTIMONIALS received from MR. HEAD, Crystal Palace; MR. IRWIN LYNCH, Cambridge Botanic Gardens; and others.

THE "ACME" WEED KILLER, FOR CHEAPNESS AND EFFICIENCY, HAS WON FOR ITSELF A NAME FAR ABOVE ALL OTHERS.

SOLE PROPRIETORS AND MANUFACTURERS—

THE ACME CHEMICAL CO., LTD., Tunbridge, Kent; & Carlton St., Bolton, Lancashire.

H. POTHS & CO.'S STAND AT THE CHEMISTS' EXHIBITION.

"THE CHEMIST AND DRUGGIST"
of April 29, 1893, says:—

H. Poths & Co. take us up to the centre of the hall again, where this firm's trim corner is well filled with dispensing-bottles and enamelled label shop-rounds, &c. These are exhibited in pyramid fashion, the top layers being made up of plain show-jars for displaying oils and other specimens. The more attractive section, however, is that devoted to the enamelled-labelled bottles. In conservative England these are taken up somewhat slowly, but our colonies (Mr. Poths informed our representative) have taken to them very well. In South Africa, for example, about a dozen shops are now fitted up with the immense advantage the ordinary gold-precipitated, for the not in the least affected by moisture and heat. small part of the bottles for photo-These bear labels of led letters, similar to those of Poths' blue poison-bottles. The adaptability of the new style of label for counter show-jars is shown in a new lozenge-jar of a good shape. It is a handsome article, being made of heavy glass, cut at the edges and polished. Amongst small sundries which the firm are showing we noticed some boxes made of tough gelatine, beautifully tinted with plain and iridescent colours. These were intended for confections originally, but Mr. Poths thinks there may be use for them as pill and sample cases, as they have practically all the advantages of glass, combined with great lightness.



Admitted by many to be the most novel and artistic display of Bottles and Show-jars in the Exhibition.

COPY OF VIEW OF STAND FREE ON APPLICATION.



4 CREECHURCH LANE, LEADENHALL STREET, LONDON, E.C.

WILEY'S
CHEMICAL
ESSENCE
FOR
LAMENESS in HORSES

A Genuine Remedy. Brings credit to all who sell it.

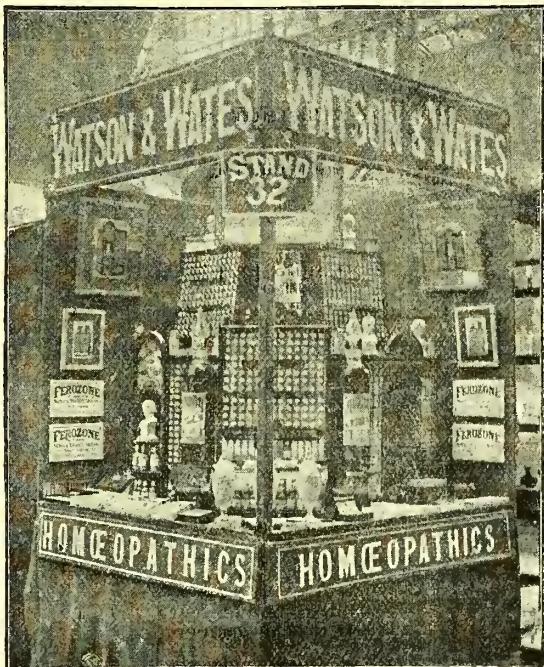
50 YEARS' UNBROKEN SUCCESS

SOLE MAKER AND PROPRIETOR,

FRANCIS E. ROOKLEDGE, CHEMIST,
EASINGWOLD, YORK.

TO BE HAD OF USUAL WHOLESALE HOUSES.

CHEMISTS' EXHIBITION,
1893



Send for further particulars and "Press Opinions" of
NEW SHOW CASES, &c.

93 LEADENHALL ST., LONDON, E.C.

MÜLHENS' ORIGINAL No. 4711 BRAND OF EAU DE COLOGNE



The Gentlewoman writes as follows:—"Those of us who are connoisseurs in this matter of perfume know how greatly the various so-called Eaux de Cologne vary, and are well acquainted with the superiority of the '4711' make over all others. This possessss an unequalled degree of refreshing fragrance, is at the same time both stronger and more delicate, and is not only better, but more lasting than others."

Young Ladies' Journal:—"Its pure, fresh scent never palls as is the case with many perfumes."

The World says:—"Anyone desirous of getting a thoroughly genuine Cologne cannot do better than send for a bottle of the '4711' double extract. Once having used it, repetition is a foregone conclusion."

Lady's Pic'orial says:—"Its quality is absolutely the best, while for purity and lasting effects it has no rival. . . . We can most cordially advise all our readers to make a point of obtaining the No. '4711' brand."

Truth finds it "really deliciously sweet."

OF ALL WHOLESALE FIRMS IN THE U.K.

Do not omit to mention the "No. 4711," and the Blue and Gold Printed Label, which commands a higher Retail Price than any other Brand whatever.

LONDON BRANCH:—62 NEW BOND ST., W.

Wholesale, Export, and Retail—R. J. REUTER, Manager.

STOCK KEPT IN LONDON

SOZIO & ANDRIOLI

ESTABLISHED A.D. 1757.]

GRASSE (Alpes Maritimes), FRANCE.

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

CONCENTRATED PERFUMES.

FLOWER POMADES at the highest possible Saturation. ROSE & ORANGE FLOWER WATER, Sweet Almond Oil.

CONCRETE ESSENTIAL OILS.

London Agent—MR. FREDK. BOEHM, 4 CULLUM ST., E.C.

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TIDMAN & SON,

WHOLESALE, EXPORT, AND MANUFACTURING PERFUMERS.

Dealers in Druggists' Sundries. Makers of Feeding Bottles, Fancy Soaps, Cosmetics, Toilet Requisites, &c. Proprietors of Tidman's Sea Salt, Tidman's Sea Soap, Tidman's Carbolic Disinfecting Powder, White's Glycerine and Honey Jelly, &c., &c.

BUSHILL STREET, LONDON, E.

ILLUSTRATED PRICE LIST POST FREE TO ANY PART OF THE WORLD ON APPLICATION.

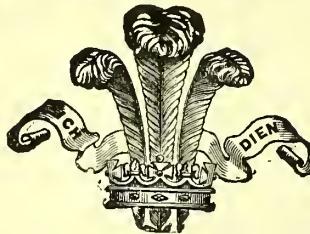
Telegraphic Address—"BLUEBERRY LONDON."

Telephone No. 11,392.

20 HIGHEST AWARDS.

Pears' Soap

Soap Makers
by Appointment to



H.R.H.
The Prince of Wales.

RETAIL PRICES.			WHOLESALE PRICES.
6d.	SIZE, unscented	-	4s.
1s.	„ all shapes, Washing or Shaving		8s.
1s. 6d.	„ Ditto	ditto	12s.
2s. 6d.	„ (The Washing Tablets are perfumed with Otto of Roses)		20s.
TRANSPARENT GLYCERINE		2s. per Box of 3 Tablets	16s. Per dozen Boxes.

DISCOUNT of 20 per Cent.
On all ORDERS of NOT LESS than £5.
(GROSS TRADE-PRICE VALUE.)

If accompanied by Remittance,

[Lesser Quantities 15 per Cent. Discount only.]



IMPORTANT STATEMENT.



No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever obtains more than the above 20 PER CENT. Discount.

(Signed), *A & F Pears*

71-75, NEW OXFORD STREET, LONDON, W.C.

USED BY



ROYALTY.

IVORINE**COMPLEXION CREAM**

Removes Wrinkles, Superficial Eruptions, Irritation, Inflamed Eyelids; Heals Burns, Cuts, Bruises, Insect Bites, and is invaluable for Eczema.

Highly recommended by "LANCET" and Dr. STAKTIN.

Miss ELLEN TERRY says: "Nothin' can compare with it."

IVORINE HAIR BALSAM

Prevents Baldness and Greyness, removes Dandruff, stimulates vigorous Growth, and imparts a softness and glossiness unrivalled by other preparations.

PEARLINE Dentifrice preserves Teeth, renders them pearl white, and gives delightful fragrance to the breath.

CREAM and BALSAM, 1/6 each. PEARLINE, 1/- Proprietors—

BAILEY'S TOILET COMPANY, BEDFORD.

Wholesale Prices:—

CREAM and BALSAM, 12/- each; PEARLINE, 8/- per dozen.

**THE LARGEST SALE
IN THE WORLD.**

**WOODS' ARECA NUT
TOOTH PASTE.**

Special terms sent on application for £5 worth.

WOODS & SON, Pharmacists, PLYMOUTH, ENGLAND.

**"BENZINE RECT."
JACKSON'S.**

SIXPENNY & SHILLING SIZES,
4s. and 8s. per dozen.

Special care is taken in
selecting good Bottles
and Corks.

H.R.H. PRINCE ALBERT'S CACHOUX.
SOLD ONLY IN BRASS BOXES, at 4/- per dozen.
The FINEST BREATH PERFUME IN THE WORLD.
Dainty morsels in the form of tiny silver bullets, which dissolve in the
mouth and surrender to the breath their hidden fragrance.

ADHESIVE,
TENACIOUS,
AND KEEPS WELL.

**JACKSON'S
LIQUID GLUE.**

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.

BRUSHES INCLUDED.

(B)

SPECIALITIES FROM THE LABORATORY OF **THOMAS JACKSON, Strangeways, MANCHESTER.**

S. V. METH.

**JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.**
LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in
5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.
SAMPLES FREE.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.
FINEST ORANGE WINE FOR QUININE

**JAMES
BURROUGH**

FINE PORT (without tannin)

FINE SHERRY (for Medicinal uses, &c.)

FINE MALAGA (for Steel Wine, &c.)

FINE BURGUNDY (for invalids)

S.V.R. and Methylated Spirit at lowest present prices

CALE ST. DISTILLERY

*All at Lowest Prices and
specially recommended.*

CHELSEA

E. WITROFSKY,

Drug and Chemical Merchant,
22 FENCHURCH ST., LONDON, E.C.

PURITY GUARANTEED.

Oleum Absinthii, Amygdalæ Dulcis, ditto Essent., Anisi (H. & W.), Bergamotæ, Caryophylli, Cognac, Coriandri, Geranii (Vimard & Co.), Iridis (Vimard & Co.), Juniperi, Lavendulæ, Lomonis, Menth. Pip. (H. G. Hotchkiss), Pini Pumilioni, Sylvestris, Rosmarini, &c., &c., &c.

OTTO OF ROSE (Pure Virgin).

SPECIALITIES:—

CARAMELINE (substitute for Burnt Sugar). 20 times stronger than Caramel.

SOLUBLE ESSENCE OF ORRIS (Maubert Fils & Vimard).

CONCENTRATED PERFUMES, POMADES, FLOWER-WATERS.

Carbolic Acid, Liquid, 25 per cent.

Carbolic Acid, „ 50 „

Carbolic Acid, Liquid, 95 per cent.

Carbolic, Crystal, 35° to 70°

R C TREATT

Dunster House Mincing Lane
LONDON

IMPORTER OF

Musk Civet Ambergris Attar - of - Rose
ESSENTIAL OILS



Wholesale
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APPLICATION
ON
QUOTATIONS
AND
PRICE LIST

COCKING'S JAPAN OIL OF PEPPERMINT.

Our Extra Steam Refined Oil is trebly distilled and twice rectified by steam, by an entirely new process and in apparatus of our own invention, by which all those polymeric products of a tarry and resinous nature which are objected to by some consumers are extracted. It is of water-white colour retaining its full aroma, pungency, and strength, and guaranteed absolutely pure and soluble in spirits of wine.

COCKING'S JAPAN MENTHOL CRYSTALS.

Our Extra Steam Refined quality is in firm, hard, dry, and snowy-white crystals, entirely free from oily contamination, and therefore of the highest melting-point. As the original and largest manufacturers in the world of the true Japan Menthol, we guarantee our brand to be absolutely pure. Beware of substitutes. For full particulars, therapeutic uses, &c., see special circulars, to be had on application.

Sole Agents—JOHN BATT & CO., 39 OLD BROAD ST., E.C.

COOK'S PURE TOILET SOAPS.

SPECIALITIES:—COOK'S SAVON DE LUXE. The most luxurious soap made.

COOK'S "RIVIERA" (SUPER-FATTED). Specially prepared for delicate and sensitive skins.

SPECIALITIES MADE FOR THE TRADE.

COOK'S GOLD MEDAL ANTISEPTIC SOAP. (Thomson's Patent.)

For curing and relieving Eczema, Ringworm, and all skin affections.

SIX PRIZE MEDALS AT GREAT EXHIBITIONS FOR EXCELLENCE AND PURITY.

Can be obtained through

Messrs. S. MAW, SON & THOMPSON, LONDON, or from E. COOK & CO., LONDON.

JOSEPH WATSON & SONS,

MANUFACTURERS OF

GLYCERINE

DOUBLE DISTILLED CHEMICALLY PURE, 1260 Sp.G.,

ALSO FOR NITRO-GLYCERINE AND OTHER MANUFACTURING PURPOSES.

PACKED IN 10 AND 5 CWT. IRON DRUMS, TO BE RETURNED, AND IN 56 LBS. TINS FREE.

WHITEHALL SOAP WORKS, LEEDS.

**H. P. TRUEFITT'S
SPECIALITIES FOR THE HAIR.**

Floral Extract, 3/6, 5/-,

10/6, 21/-

Egg Julep, 2/-, 4/-

CONCENTRATED

Egg Julep, 2/6,

5/-, 10/6.

Golden Fluid,

10/6, 21/-

EUXURON,

1/6.

&c.

*

EUCHRISMA.
Combines in one clear Fluid every valuable
Component of a Hair Grease and Wash,
3/6/-, 5/-, 10/6, 21/-.

An elegant Preparation for
the Hair and Beard.
Price 2/6, 3/6, 5/-, 10/6, 21/-.

BRILLANTINE

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT)

PRICE ONE SHILLING.

20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London.

10

"PRICE'S

GLYCERINE"

(Originally introduced in 1855).

Guaranteed free from ARSENIC.

and all other impurities.

WHOLESALE FROM

PRICE'S PATENT CANDLE CO.,

LIMITED,

London, Liverpool, and Manchester.



THE
Heidelberg Gelatine Works,
STOESS & CO.
Ziegelhausen,
near
HEIDELBERG.
GELATINES
OF ALL
KINDS AND
DESCRIPTIONS
SPECIALITIES:
The Finest & Purest Qua-
lities for Culinairy, Domestic,
and Technical purposes.

STOESS' IMPROVED GELATINE for EMULSIONS.

SOLE AGENT—MR. FREDK. BOEHM,
4 Cullum St., LONDON, E.C.
STOCK KEPT IN LONDON. **BRAND "S"**

PARAFFINUM MOLLE, B.P.

ABSOLUTELY FREE FROM ALKALI
ABSOLUTELY FREE from ACID

HAS NOW STOOD THE
TEST OF YEARS,
AND
ESTABLISHED
ITSELF
AS
PETROLINA
MANUFACTURED IN AMERICA. Supplied by all
Wholesalers. In Casks of 3 cwt.
In Kgs of 1 cwt., ½ cwt., and ¼ cwt.
In Tins of 14 lbs., 5 lbs., and 1 lb.
In bottles (without Labels) of 2 oz. and 4 oz.

BINCHAMTON OIL REFINING CO., NEW
YORK STATE, U.S.A.
London Agency—3 COLEMAN ST., E.C.



CYGNET BRAND

EUCALYPTUS OIL,

Distilled from the leaves of Eucalyptus CNEORIFOLIA,
formerly considered a sub-variety of *E. Oleosa*, but now classed
as a distinct variety.

The Trade are invited to test this carefully prepared Oil, which since its
recent introduction from Australia has won the unqualified approval of
the leading British, American, and Continental Authorities.

Its purity, pleasant perfume, the unprecedentedly large percentage of
crystallizable Eucalyptol it contains, and other good qualities, are de-
servedly gaining the preference of buyers.

Samples and Quotations on Application.

Sole Consignees—Wholesale only—

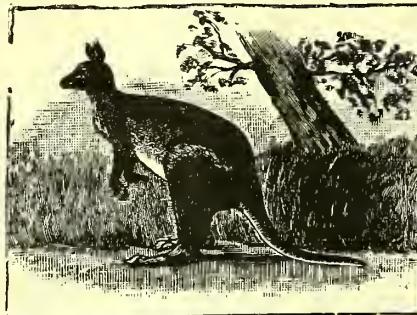
J. W. DRYSDALE & CO.
8 CREECHURCH LANE, LONDON, E.C.

KANGAROO

EUCALYPTUS OIL

25-lb. Tins.

KANGAROO



TRADE MARK.

25-lb. Tins.

BRAND.

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.
To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON,

**COLONIAL ADDRESS—A. M. BICKFORD & SONS, WHOLESALE DRUGGISTS,
46 CURRIE STREET, ADELAIDE.**

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Wednesday morning's post of each week. Remittances payable to EDWARD HALSE.

FOR DISPOSAL.

Formulæ.

For sale, 130 well-tried recipes, neatly copied in book, post, 1s. 6d. Tully, Chemist, Hastings.

Literature.

What offers for 16 vols. of *Pharmaceutical Journal* and a few years' *Chemist and Druggist*, all complete? White, Chemist, Istock.

Drugs and Chemicals.

Oil, menth. pip. Ang. nov. (24 Win. qts.), very fine quality, 2s. lb.; 1-lb sample 6d. extra, post paid, on receipt of P.O.O. Bloodworth, Chemist, Spalding.

Educational.

Nearly new histological microscope, rack and fine adjustments, 2 eye-pieces, ½-in. and 3-in. objectives, condenser, and 13 mounted objects cost 7s.; offers invited. Henry Ebbage, Southend-on-Sea.

Dental.

New complete set of plated tooth-forceps, &c., in case, 11 instruments, 2s. White, Chemist, Istock.

Vulcaniser, 3-flask, gun-metal, 55s.; engine, Hodge handpiece, 7s.; 10 forceps, 30s.; spittoon, fs.; lathe-head, 10s.; gas apparatus (White's), with 2 cylinders, cost 9s., for 5s.; 3 cases for specimens. Sketch, Elliott & Co., 30 Hanover Street, Edinburgh.

Proprietary Articles.

Twelve Whelpton's 1s. 1½d.; 1 Rowland's Maccassar 3s. 6d.; 7 Norton's pills 1s. 1½d.; 1 Norton's 2s. 9d.; 1 Collis Brown's 4s. 6d.; 5 Jacobs Oil 2s. 6d.; 2 Himrod's 4s.; 2 Carbolic Smoke Ball 10s. 6d.; 3 Cockles 2s. 9d.; 1 Widow Welch 2s. 9d.; 1 Scott's 2s. 9d.; 1 Lactopeptine 4s. 6d. Price 3s.; offer. R. Howe, Grocer, 7 Castle Street, Shrewsbury.

Shop Fittings.

Surplus fittings. - Handsome show-case, 53 in. long, 16 in. wide, 39 in. high, plate-glass doors to front and round lift-up case at top, nearly new, 6s.; 2 specie-jars, new, 30 in. and 33 in. high, 1s. 15s. each. Brooks, 509 New Cross Road, London.

Four 4-gall. carboys, pear-shaped, mahogany stands, 7s. 6d. each, 25s. lot; sponge-case, marble top, plate-glass all round, 50s.; upright plate-glass counter-case, 2 ft. square, 20s.; "Enterprise" tincture-press, nearly new, 9s. MacDermott, Worthing, Sussex.

Miscellaneous.

Chemists' red sealing-wax, 6d. lb., in 7-lb. parcels; cash. Edgson, Chemist, Hornsey.

Palette-knives, show trusses, sundry items, suitable for small, good-class branch. "Chemist," 10 Bond Street, Higher Broughton, Manchester.

Chemist and Druggist Diaries, 1889, 1890, 1891, 1892; Squier's "Companion" with Addenda. 1s.-test.; Alpe's "Medicine-stamp Duty," "Veterinary Counter Practice"; alias new; offers? Collier, Gamlingay.

Pill-machine for sale, reversible plate, cut 24 3 or 5-grain pills, 12s. W. Oldsmith, West Street, Leeds.

Invalid-carrying chair, wood seat, raised back, 62s. Lynch; only used twice; price 17s. Kennett, 36 Pevensey Road, Eastbourne.

Seven Maw's tooth-forceps, new; 5-grain pill-machine: Guy's "Surgeon's Vade-mecum"; B.P., 1867; Tanner's "Clinical Medicine"; Sale of Poisons Register; what offers? Wells, 19 Yew Tree Road, Kildminster.

WANTED.

Plate-glass shelving for window. Brooks, 509 New Cross Road, London.

Window-stand with glass shelves and window-fittings, also sponge-case, cheap. Fletcher, Chemist, Ilkston.

Half-plate camera and R. R. Iris diap. lens, and four-fold tripod; state price and maker. Count, Chemist, King's Lynn.

Scales.—Pair dispensing, also pair counter-scales (small); send sketch, condition, price, to Dr. Gill, West Bromwich.

A few ounces castor-oil seeds and Calabar beans. 189/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Chemist and Druggist back numbers, January 5, October 26, December 21, December 28, 1889; July 26, September 20, 1890. Particulars to Boileau, Dublin.

Two-drachm pessary-mould, 6 or 12 size; dispensing balance with weights; also counter-scale with weights; all must be in fairly good condition; state prices, must be cheap. "Dispenser" Medical Institution, 22 Craven-Terrace, Hyde Park, London, W.

SHOP FITTERS,
SHOWCASE
MAKERS

NATALI & CO.

40 GRAY'S INN ROAD, HOLBORN
LONDON, W.C.

CHEMISTS' SHOP-FITTINGS, SHOWCASES, and UTENSILS
of all descriptions, new and second-hand.

Chemists commencing, opening Branches, or making alterations, can be fitted throughout immediately, and save 25 per cent. by purchasing from our extensive stock.

Old Fittings Purchased or taken in Exchange.

Estimates Free.

HIRST, BROOKE & HIRST (LIM.), LEEDS,
Manufacturing Chemists and Wholesale Druggists, Manufacturers of

ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

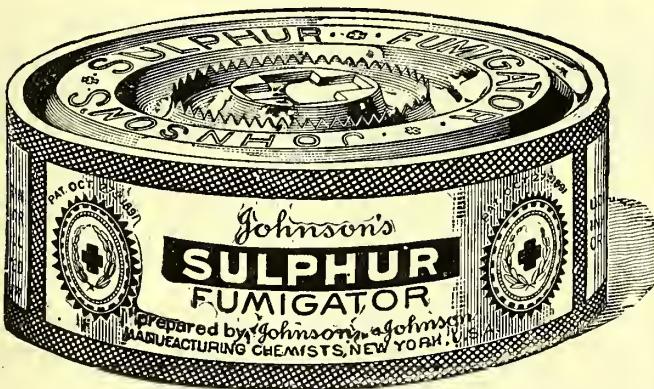
MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

A. MILLAR & CO., DUBLIN; and 47 MARK LANE, LONDON, E.C.

Or of H. J. ROYDANT & CO., 75 Acre Lane, Brixton, S.W.

JOHNSON'S SULPHUR FUMIGATOR.

Patent No. 18,434
of 1891.



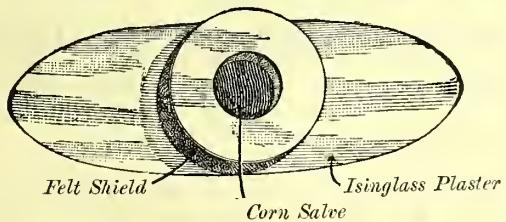
Patent No. 18,434
of 1891.

FOR FUMIGATING INFECTED ROOMS AFTER
Cholera, Diphtheria, Typhoid Fever, Smallpox, Scarlet Fever, & other Contagious Diseases.

Destroys noxious vapours from sewers, &c. By the use of these Fumigators a safe and convenient mode of burning sulphur indoors is provided.
One Fumigator will burn two hours, and is sufficient for an ordinary sized room.

JOHNSON'S FUMIGATOR is put up in a specially prepared FIREPROOF BOX, and will not burn nor become red hot like tin or other metal packages.
Packed in neat Show Boxes with folding covers. A showy Counter Article. Retail price, 1/-.

LONDON CORN PLASTERS. COTTON WOOL.



JOHNSON & JOHNSON

Briefly described as follows:—The centre is a piece of Salicylic Plaster (40 per cent.), which is placed over the corn.

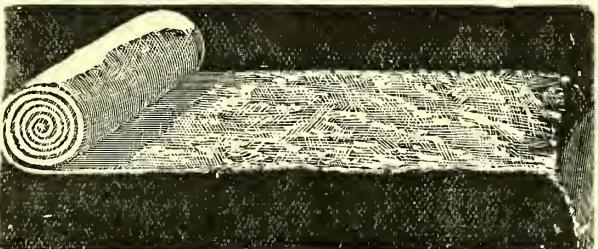
Around this is a corn shield, which prevents pressure from the boot and the Salicylic from going beyond and injuring the flesh.

The whole is kept in position by means of a strip of adhesive plaster on the back.

Packed in 6d. and 1/- boxes. Sample dozen mailed to any chemist's address, on receipt of 3d. for the 6d. size, or 6d. for the 1/- size.

ABSORBENT

COTTON WOOL.



Rolled with Tissue Paper between to prevent felting,

The Invention of JOHNSON & JOHNSON.

AS EASY TO APPLY AS A CLOTH BANDAGE.

In ordering from Wholesale Trade specify **JOHNSON & JOHNSON**.

JOHNSON & JOHNSON, LTD., 12A LONG LANE, SMITHFIELD, E.C.

JOHN WYETH & BROTHER

MANUFACTURING PHARMACEUTICAL CHEMISTS.

PHILADELPHIA, U.S.A.

LONDON, E.C.: 30 SNOW HILL.

We were the **FIRST** to introduce to the Pharmacist and the Medical Profession, a line of

COMPRESSED PILLS (OR POWDERS)

We are the **LARGEST** Manufacturers of this line of products.

The Machinery and appliances connected with our compressing department are Marvels of Perfection and Accuracy, and the Products wonderful in their Accuracy, Beauty, Style of Finish, Ready Solubility, and Permanency. We use only the **PUREST MATERIAL**. The closest attention is given to every detail of manipulation, and the whole process is under the supervision and direction of the highest commercial integrity, thus ensuring the **SUPERIORITY** of our Preparations.

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WYETH'S SOLUBLE COMPRESSED HYPODERMIC DISCS

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WYETH'S BEEF JUICE AS WELL AS

WYETH'S DIALYSED IRON

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Are being presented to the attention of the Medical Profession by means of personal interviews, samples and literature, and Advertisements in the Medical Journals. They are being prescribed by Physicians and ordered by Hospitals, and should be found in stock in every well-appointed Pharmacy.

*NOTE That all Labels of Wyeth's Pharmaceutical Preparations bear the full firm name and address,
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WILLIAM F. HORTON, JOHN WYETH & BROTHER, 30 SNOW HILL, LONDON, E.C.

Resident Representative of

The Chemist & Druggist

SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, MAY 13, 1893.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.
CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

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7.—£1,100.—ESSEX (improving locality).—Good-class Family Business; returns about £1,100; convenient house and shop, with good stock; small garden attached; about £900 required.

8.—£1,500.—NORFOLK.—In consequence of the illness of the proprietor; very old-established Business; returns from good-class trade about £1,500 yearly; large, well-fitted shop, and good stock; valuation terms can be arranged.

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12.—£750.—EASTERN COUNTIES.—Good-class Family Business; situated in a good market town; returns at present about £750 yearly, with good profits; well-fitted shop and good stock; about £500 required.

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NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

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TO be Let, on lease, newly erected, the remaining one of a row of four; a capital opening for a Chemist's and Druggist's; rent £130. Apply to Andrew Hart, 192 High Street, Stoke Newington.

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A POTHECARY'S HALL.—The best and largest Druggist Shop in Penmaenmawr to Let; the said shop is well fitted and has 22 feet frontage with 2 plate-glass windows and revolving shutters; stands in the centre of the main street, near the post office. Apply to J. & H. Jones.

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A N old-established firm of Wholesale Druggists, in the West of England, contemplate opening a Retail department, and would be glad to correspond with a qualified man commanding a capital of about £500. Apply, 18830, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNER required, with £1,000 to £1,200, to place upon the market a Patent Medicine, which has a splendid future; fortune assured, as will sell upon its own merits where once introduced; gentleman preferred who would not object to travel. Apply, Messrs. Berdoe & CO., 30 Jewry Street, City.

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SOUTH COAST.—Best part of fashionable town; well-fitted and handsome pharmacy; price £650.

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Established 1870.

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3.—**KENT COAST.**—Retail and Dispensing Business, in fashionable quarter of popular seaside resort; returns £450; rent £40; good house; price £300; £100 could remain.

4.—**ESSEX** (Good market town).—Very old-established Retail, Dispensing, and Prescribing Business; returns £1,600, with good profits; well-fitted shop, heavily stocked; price £1,200.

5.—**LINCOLNSHIRE** (Good market town).—Retail, Dispensing, and Prescribing Business; returns £1,250, steadily increasing; low rent; splendid position; valuation terms arranged; about £700.

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7.—**BIRMINGHAM.**—Retail and Prescribing Business; returns £550; good prices; shop well fitted and stocked; satisfactory reasons for selling; good house; price £275, or valuation.

8.—**EASTERN COUNTY.**—Unopposed country Business; returns nearly £1,100; rent £20; good house and large garden; shop is well fitted and stocked; same hands many years; retiring; price £400.

9.—**LONDON, W.**—Main thoroughfare; Retail and Dispensing Business; returns nearly £1,000; low rent; good house, large garden; well fitted and stocked shop; price £650 or offer.

10.—**LONDON, W.**—Same hands 23 years; Retail and Dispensing Business; returns £400, full prices; neglected through age; young energetic man should do £1,000; price £350 or valuation.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

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CHEMISTS.—The Lease of Premises in a first-class West-end position, together with the expensive Fittings and Stock, for disposal, all at £1,250, as a going concern; old-established high-class Business. Beard & Son, Auctioneers, &c., 110 Westbourne Grove, W.

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£100 Cash, remainder by easy instalments, for a respectable, well-stocked General, Drug, and Prescribing Business, making £140 a year net profit; expenses light; ample scope for improvement. "Pax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£400, or Valuation.—Old-established Mixed Business in good market town in Lincolnshire; established over 50 years; in present proprietor's hands 26 years; failing health reason for disposal; rent £20. Apply W., c/o Messrs. Loftus & Saltner, Market Place, Hull.

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Having numerous inquiries for good-class Country Businesses, they invite communications from intending vendors.

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For full particulars and cards to view apply to the agents as above.

BUSINESSES FOR DISPOSAL—Cont.

CAPITAL and old-established Drysaltery, Drng, and Mineral-oil Business (Wholesale and Retail) for disposal, as a going concern; proprietor retiring; good and cheap premises, and splendid opportunity for energetic business person. Apply, for full particulars, to Alfred Revell, Accountant, Huddersfield.

RETURNS £600.—At Hull, on main road, in fashionable neighbourhood, neatly-fitted, double-fronted shop and convenient house; price about £250, according to stock taken; the business has been carried on as a branch under management for 18 months; only cash buyers need apply. Apply, Foulston, Chemist, Hull.

ADVERTISER wishes to dispose of his Business, Retail and Prescribing; returns about £300, can be greatly increased; rising district; good profits; no opposition; cash trade; Dentistry needed; rent £20, inclusive; no reasonable offer refused; immediate possession; inspection invited. Matthews, Chemist, Ashford.

FOR sale, in consequence of the death of proprietor, a good-class and old-established Business, in a small country town in Dorset, within 100 miles of London; no other chemist for some miles distant; full prices generally obtained. For particulars apply to A. B. C., c/o Messrs. Wright, Layman & Umney, 48 Southwark Street, London.

S.W.—£200; less than valuation; splendid position, main road; neglected Retail, now doing £7 weekly, capable of doing at least £20 if managed on business principles; good house, bath-room half-rent let off; would make capital Drug Store. S. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SURREY, easy distance from London; Light Retail and Dispensing Business; returns £450, has done £700; and can again; rent £50, let off £20; good house and large garden; owner, having accepted appointment abroad, will sell for £225, which is simply value of fixtures. "Potas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£100.—London, N.E.—Good position; crowded neighbourhood; returns average £400; shop well fitted in mahogany; fixtures alone worth price asked; good Tooth-extractor much wanted; not rent, including taxes, £30; possession can be had for £100 cash. Apply, personally if possible, O. C. Kent, Esq., Solicitor, 103 Cheapside.

BUCKINGHAMSHIRE, village, main line of rail, easy distance from London; Light Retail and Prescribing Business; returns £350, capable of increase by anyone understanding Agricultural trade; rent and taxes about £30; good house and well-stocked garden; price £175; unusually good chance. "Bucks," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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SITUATIONS OPEN—Cont.

IMPROVER or Junior wanted as fourth Assistant. Apply, personally. E. W. Warren & Co., 340 Harrow Road, London, W.

WANTED, a youth for Surgery; must be a quick and accurate Dispenser. State terms (in and out doors), Dr. France, Bury.

BATH.—R. Dunn, Chemist, requires an indoor Assistant, accustomed to high-class Retail and Dispensing. Applicants will please state full particulars, age, height, salary, and experience, with references.

QUALIFIED Assistant wanted, at once, in good-class business (outdoors). Full particulars, with salary required, or, if possible, personal application, to Goodchild, High Street, Horlesden, Willesden Junction.

WANTED, qualified Assistant to manage Branch in market town; must be of gentlemanly address, quick, and accustomed to Agricultural business. State salary (outdoors) and references to Boots (Limited), Nottingham.

AT once, Junior Dispenser, indoors; Cash business, W.; must be well recommended. Apply, stating fullest particulars, to Z., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.O. Also vacancy for General Hand (Stock-making Preps., &c.).

STRAITS SETTLEMENTS.—Wanted, a general Assistant; must have passed Minor examination of Pharmaceutical Society; 4 years' agreement; age 20 to 26; passage paid. For full particulars, apply A. Durant & Co., 32 Gresham Street, London.

HARROD'S STORES (LIMITED) require the services of a first-class Assistant for Laboratory work; only those who have had experience in the making of Pharmacopoeia preparations and specialities on a large scale need apply; salary £2 per week (outdoors); no Sunday or night duty. Apply to "Chemist," 101, &c., Brompton Road, S.W.

WANTED, June 2, Junior Assistant, about 22 (indoors); of good address; accustomed to good-class Dispensing and Retail. Apply, with full particulars of previous engagements, salary required, &c., enclose photo (to be returned); personal interview preferred. Foster Blades, 10 Gloucester Road, South Kensington, S.W.

MANAGER (at once), indoors, single, for Branch, N.W.; must be well up in first-class Cash business, qualified, and possessing undeniable references; 4 Assistants kept. Apply, first instance, stating fullest particulars (none others answered), to H., Messrs. Maw, 7 to 12 Aldersgate Street, E.C. "Liberal salary to right man."

PARIS.—Wanted, an experienced Assistant, speaking French fluently; a thorough business man, between 30 and 35, married or single; a liberal salary will be given for corresponding services. Applications must be accompanied by first-class references as to respectability and pharmaceutical qualifications. Address (with photo), "Chemins," 10 Rue Leronix, Paris.

WANTED, immediately, a smart Junior, for Retail, Dispensing, and Prescribing business; must be able to occasionally take charge in absence of principal; personal application preferred; if by letter, send usual particulars. Applications unanswered within four days are declined. A. Bevan, 128 Ball's Pond Road, Maida Vale, N.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

C. LEAR: Locum-tenens; qualified. 13 Air Street, Regent Street, W.

AS part-time Junior. Apply, James, c/o Pile & Co., 34 Great St. Helens, E.O.

JUNIOR; 5 years' experience. A. Harrison, 157 Church Road, West Brighton.

JUNIOR; 19; 5 years' experience. Bromley, New Ferry Pharmacy, Birkenhead.

ASSISTANT; qualified; 22; in or outdoors; testimonials. W. B., Muirkirk, N.B.

LOCUM-tenens; qualified; aged 25. W., 365 New Hampton Road, Wolverhampton.

TEMPORARY Manager or Senior; disengaged. "Locum," 3 Leonard Terrace, Llandudno.

AS Counterman or Stockkeeper; Store trade; good references. Dee, 392 Walworth Road.

JUNIOR; 20; 3 years' experience; disengaged. Evans, 96 Marchmont Street, London, W.C.

ASSISTANT or Manager; brisk trade; good experience. W., 9 London Road, Reading.

ASSISTANT; 22; 7 years' experience. "Salot," 235 North End Road, Waltham Green, S.W.

JUNIOR (21), in good Dispensing business; 5 years' experience Dennis, Broadbank, Louth.

MANAGER, by day, week, or month; qualified. N., 45 Adelphi Street, New Cross, London.

MANAGER or Temporary, being disengaged; 40; no family. 4 Rhinchen Terrace, Porthcawl.

LOCUM Manager, or Assistant; Major; 22½; tall; abstainer. L., 2 Northgate, Wakefield.

ASSISTANT: London preferred; outdoors; qualified; 23; 5 ft. 10½ in. Watson, Spennymoor, Durham.

DISPENSER to Doctor; good references. "Alpha," 23 Queen's Terrace, Kirkwood Road, Beckham.

ASSISTANT; 20½; good references. State particulars, "Chemicus," Old Trimdon, Castle Eden, Durham.

TEMPORARY only; disengaged May 18; aged 27; qualified. "Minor," 2 Rochester Terrace, New Southgate, N.

WHOLESALE: Drap or Sundries; 31; long experience; permanency. P., 34 Gayhurst Road, Dalston.

MANAGER or Assistant; qualified; single; aged 39; good references. "Chemist," 19 Stone Street, Dudley.

AS Stockkeeper or Assistant for Patents, Sundries, &c.; aged 25. G. W., 106 Longborough Road, London, S.W.

LOCUM-TENENS, Senior or Manager; experienced; qualified; disengaged. Lemon, Vicarage Road, Hastings.

TEMPORARY; varied experience; steady, reliable; registered; reference. "Chemist," 172 Caledonian Road, N.

ASSISTANT; experienced; 26; outdoors preferred; good Counter-man. J. H., 13 Claremont Street, Shrewsbury.

ASSISTANT; 24; Prescriber; experienced; references; outdoors preferred. "Myrrh," 51 Penny Street, Lancaster.

LOCUM-TENENS; 29; experienced, reliable, abstainer; highest references. Jeffery, Norman Road, Canterbury.

QUALIFIED Junior, in good-class business; aged 23; good references. J. P., 30 High Street, Wigton, Cumberland.

IMPROVER or Junior, in good-class business; London preferred; aged 19; 4 years' experience. J. Milner, Woodcock, Thirsk.

IMPROVER or Junior; 21; 5 years' experience; mixed country business preferred. A., 11 Queen Street, Market Rasen.

JUNIOR; temporary or part-time, for summer months; qualified; good experience. "Minor" English Chemist, Hyères, France.

DISPENSER to Surgeon; outdoors; in or near London; 11 years in present. H. W., 58 Allington Street, St. Michael's, Liverpool.

SENIOR; qualified; disengaged; aged 26; height 5 ft. 10 in.; good experience and references. "Radix," 75 Wimborne Street, S.W.

LOCUM-TENENS, or Dispenser to a Surgeon, or Assistant to a Chemist; disengaged. Address, W. B., 4 Aston Street, Birmingham.

ENGAGEMENT wanted, for summer months; busy seaside Pharmacy; qualified; aged 24. Wilson, c/o Messrs. Anderson & Virgo, Worcester.

ASSISTANT; outdoors; 23; qualified; disengaged; good references and experience; London preferred. "Lea," 198 Bute Street, Cardiff.

LONDON.—As Assistant or Dispenser; outdoors; married; 26; abstainer; 12 years' experience. W. E., 31 Keighley Road, Wandsworth, S.W.

BOURNEMOUTH (over 1 mile therefrom).—Locum has few hours daily, or few days weekly to spare. M., Parkwood Pharmacy, Boscombe.

ADVERTISER (22) requires engagement; reference; unqualified; please give particulars. F., c/o Mr. Dye, High Street, Marlow-on-Thames.

TRAVELLER, knowing Great Britain and Ireland, wishes to represent good house; highest references. C., 57 Gore Road, South Hackney, London.

WANTED, situation in Laboratory or Chemical-works, to undertake Analysis (inorganic). Address, Hall, 16 Narford Road, Upper Clapton.

DISPENSER or Manager; disengaged June 6; aged 30; good experience and references. "Minor," 22 Richmond Road, Bayswater, London.

ASSISTANT (outdoors); London preferred; aged 24; 8 years' experience; permanency; good references. Coverdale, Wellow, Grimsby.

ASSISTANT; 28; 12 years last situation; time for study and experience in Dispensing; outdoors. Mercer, Counden Street, Coventry.

LABORATORY, Pharmaceutical Chemist wishes position in; highest references. 191/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; permanent; could manage Branch; aged 27; single; qualified; best-class London experience. "Calumba," Rylstone, Bournemouth.

LABORATORY; aged 30; as Manager or Assistant; good experience and references; qualified. "Lab." 49 Westwick Gardens, West Kensington, London.

WHOLESALE.—Clerk; 7 years' experience in leading houses; thoroughly conversant with Invoicing and Bookkeeping. R., 62 West Ham Lane, E.

SITUATIONS WANTED—Cont.

L OCUM-TENENS; disengaged; aged 27; good Extractor. 2 Horton Street, Lewisham, S.E.
J UNIOR; 21; 5 ft. 10 in.; good experience; disengaged May 27. E., 39 Rawling Street, Keighley.
A S Manager or Assistant; abstainer; aged 30; married. "Minor," 6 Northampton Square, London, E.C.
L OCUM-TENENS or Branch Manager; good references. Jelly, 4 Buckingham Street, Fitzroy Square, W.
A S Assistant; Mixed Country business preferred; aged 33. 169/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
S ENIOR (outdoors), or Branch Manager; qualified; 5 ft. 10 in.; West-end experience; first-class references. M., 13 All Saints' Road, Bayswater, W.
M ANAGER; registered; good Prescriber, Extractor; thorough knowledge of Agricultural trade. H., 65 St. John Street Road, London, E.C.
A SSISTANT, or Manager; qualified; experienced; Dentistry; married; in or out doors. "Omega," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
A SSISTANT or Manager; outdoors; qualified; married; excellent reference through business ability. R. Webster, 4 Bronte Buildings, South Wimbledon.
J UNIOR; part-time; London; aged 21; 6 years' experience; good references. "Student," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
A S Loem or permanent Manager; married; open to book engagements forward; engaged at Eastbourne till June 16. W. B., 4 Cromwell Street, Gloucester.
A SSISTANT (35) or Locum-tenens; terms moderate; good reference; unqualified; varied experience; abstainer; single; disengaged. Lumbus, Aston, Nantwich.
A S Temporary Manager or Assistant; many years' experience in London and country; first-class references; disengaged after the 13th inst. "Chemist," 54 Welford Road, Hammersmith, W.
J UNIOR, unqualified, aged 20, 4½ years' Retail experience, tall, seeks situation (near to Norwich), in Retail or Wholesale preferred; disengaged. Address, "Radix," Reepham, Norfolk.
M ANAGER, with view to partnership or succession preferred; extensive experience; Minor, 35; tall. "Energy," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
T RAVELLER (Perfumes, &c.), is open to represent good firm; first-class connection, Eastern, Midland, and Northern counties. "Perfume," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
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We remain,

Faithfully yours,

H. H. WARNER & CO. (LTD.)

IN THE HIGH COURT OF JUSTICE, NO. 422, 1893.
IN BANKRUPTCY. Re JAMES HENRY PASMORE,

116 Tottenham Court Road, Chemist.

NOTICE IS HEREBY GIVEN that a first and final dividend of Twenty Shillings in the £ is intended to be declared in the above matter, and all Creditors in the above Estate who have not proved and established their claims to the satisfaction of the Court on or before the 27th day of May, 1893, will be excluded from this dividend.

Dated this 11th day of May, 1893. WILLIAM JUDD, Trustee,
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Morris & Callard (Salts)

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[See SYRUPS AND ESSENCES.]

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“ W. J. Daniel	“ C. E. Pinckney
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“ J. Gale	“ J. E. Sargeant
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The curriculum of this School has been submitted to and approved of by the Council of the Liverpool Chemists' Association, who have appointed the following gentlemen to visit the School from time to time, and otherwise control the study:—

Messrs. T. F. ABRAHAM, M. CONROY, F.C.S.,
C. SYMES, Ph.D.

Seven Gentlemen presented themselves for examination at the April Examination. The following five passed:—

Mr. ALFRED JOHNSON	Liverpool.
Mr. J. G. JACKSON	Sheffield.
Mr. T. M. LEWIS	Narbeth.
Mr. R. E. LLOYD	Garston.
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Students intending to enter for July Examination are advised to enter as soon as possible.

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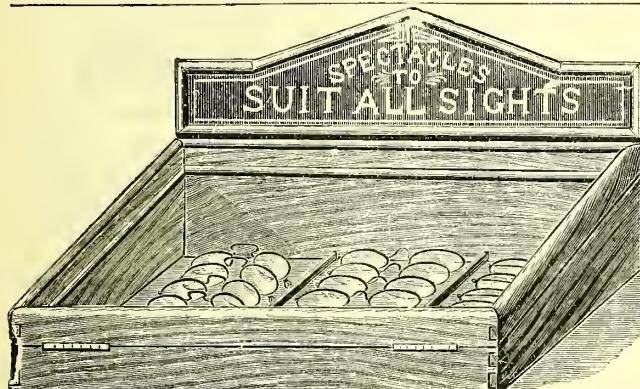
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Fig. 2.

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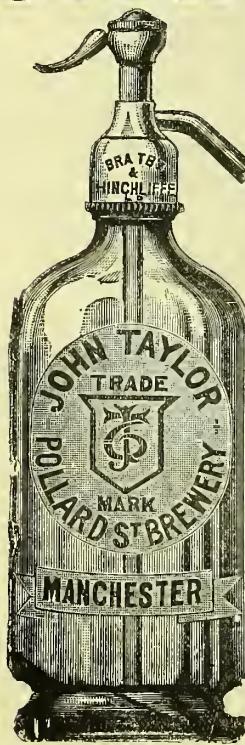
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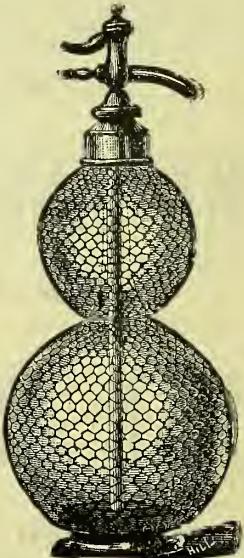


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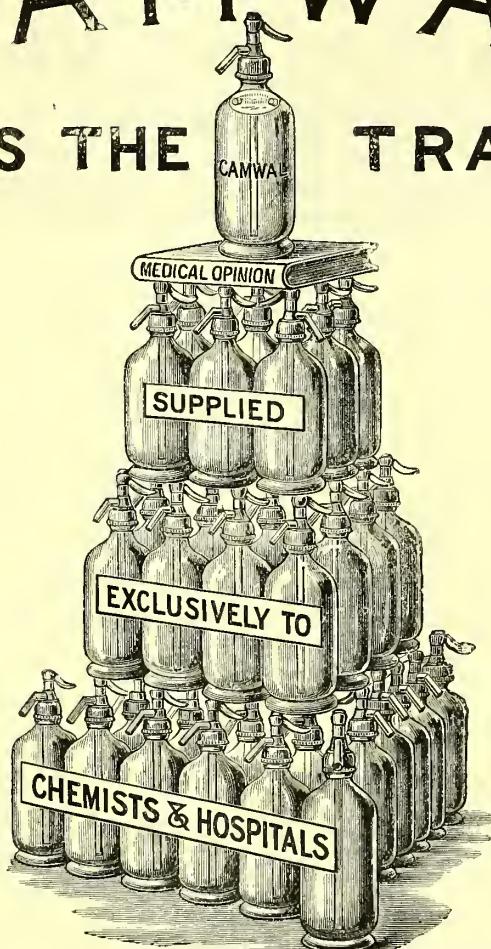
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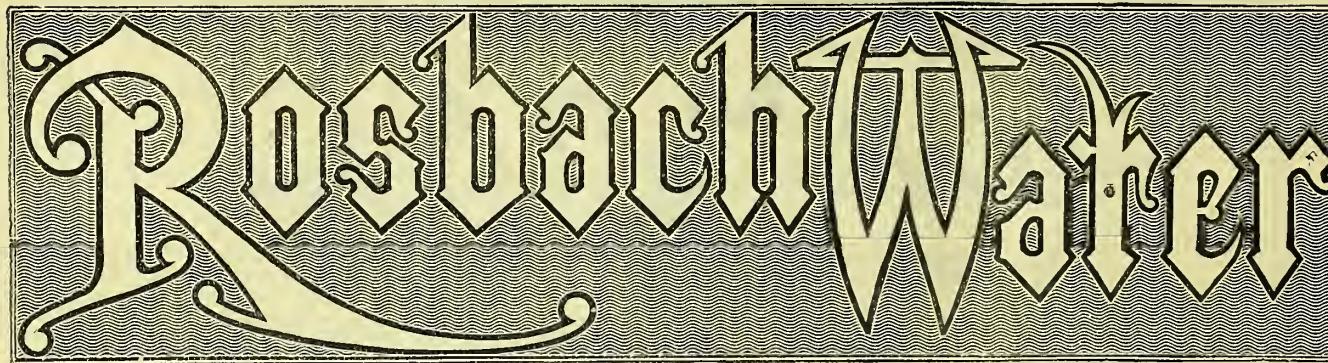
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It is proved by the analyses of Sir Charles Cameron and Prof. Wanklyn to be ABSOLUTELY PURE. It is aerated only with the natural gas from the Rosbach Springs.

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Rosbach Water enriches the flavour of good wine, whisky, brandy, champagne, or any vintage claret instead of suffocating the same, which is usually the case with other table waters on account of their salty constituencies.

Rosbach Water taken pure is a most refreshing and pleasant drink, soft and mellow, and of a beautiful bright, sparkling appearance, and exceedingly soothing to the palate.

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Per 100 Pints { LONDON, 36s.
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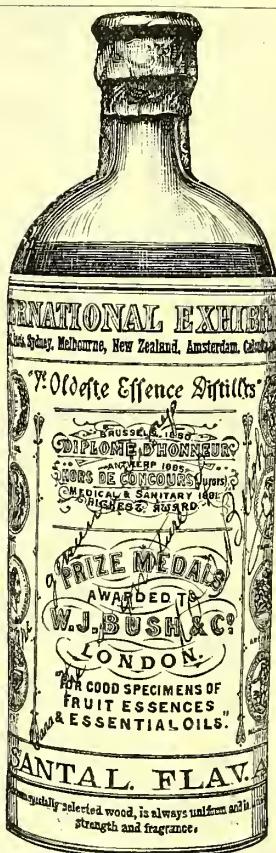
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Delivered Free { COUNTRY, 25s.

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Packed in Original 1-lb. Bottles.

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Ol. Copaibæ Ang.
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Ol. Menthæ Pip. Ang.
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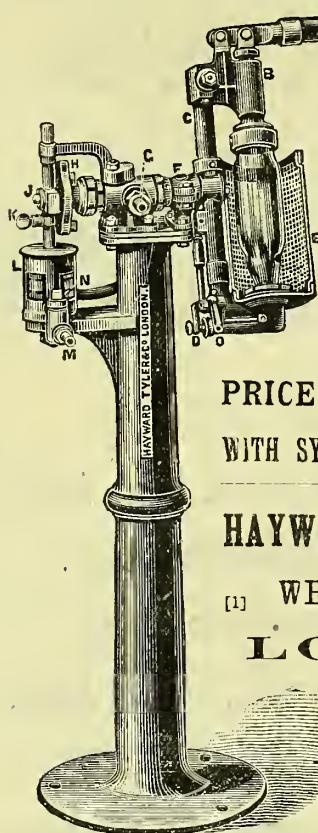
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Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

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Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

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Make a Delicious and Nutritious Jelly. In $\frac{1}{2}$ -pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

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SILVER MEDAL.

	Per gross.	Extra Quality.		Per gross.	Extra Quality.
1d. Sample Bottles, dozen parcels	—	—	1/2 Bottles, flat or round, reputed $\frac{1}{2}$ pints	—	—
1d. " " gross boxes	—	—	—	16/-	26/-
1d. Glant " dozen parcels	—	—	—	26/-	38/-
1d. " " gross boxes	—	—	1 Pint "Imperial" round stoppered bottles	—	52/-
	6/8	8/8	12½-Gallon Casks (casks free)...	—	62/-
	5/9	8/9		each 20/-	38/-
	6/8	8/8			
	7/-	9/-			

ROYAL CAFE SAUCE, a Rich Fruity & Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly $\frac{1}{2}$ pint Imperial. 42/- per gross. Sample Bottles at 7/- per Gross.

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VALUABLE CHEMISTS' NOVELTY!



TRADE MARK

INVALUABLE for CYCLISTS, TRAVELLERS, ATHLETES, and for all who require a temporary substitute for a regular meal. The specially sustaining qualities of these Tablets are due to "Frame Food" Extract, containing 10 per cent. of Soluble Wheat Phosphates, which nourish Frame, Brain, and Blood.

Dr. Nansen, after careful examination, has ordered a quantity of "FRAME FOOD" STAMINA TABLETS for the equipment of his forthcoming expedition to the NORTH POLE.

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TO BE CARRIED IN THE
WAISTCOAT POCKET.

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THE GUARANTEED PRODUCT OF PRIME OX BEEF.

WHOLESALE PRICE—
12/6 & 21/6,
LESS USUAL DISCOUNT.

INVALID BOVRIL
SPECIALLY PREPARED FOR INVALIDS.
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PER POT.

50 times more Nourishing than Meat Extract or Beef Tea.

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PATENTED.

Contains 25% of Allen & Hanburys' Extract of Malt.

A NOVEL CONFECTION.

Delicious Flavour. Brilliant and Attractive Appearance.

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Vide Dr. Tanner's Report, and *The Chemist and Druggist*, April 20th.

1/- Bottles, 9/- per dozen; 1-lb. Bottles, 18/- per dozen;
and in 2-lb. and 4-lb. Bottles, 1/4 per lb.

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ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt,
and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (or no less importance) the skillful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. ROBINSON, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.I.B.S.

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 16, 1888.

Introduced 1855.]

ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.]

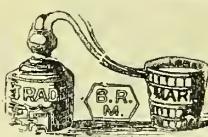
One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.

Aqua Anethi, Coriace, 4/ lb.	Aqua Cinnam. Ver., Coriace, 6/ lb.	Aqua Foeniculi, Coriace, 4/ lb.	Aqua Pimenta, Coriace, 4/ lb.
" Anisi " 4/ "	" Cassia " 4/ "	" Menth. Pip. " 4/ "	" Rosa " 5/6 "
" Camphore " 4/ "	" Flor. Aurant. " 8/6 "	" Ang. " 6/ "	" Rosa Virgin. " 10/6 "
" Camu " 4/ "	" Flor. Sambuci " 8/6 "	" Virid. " 4/ "	

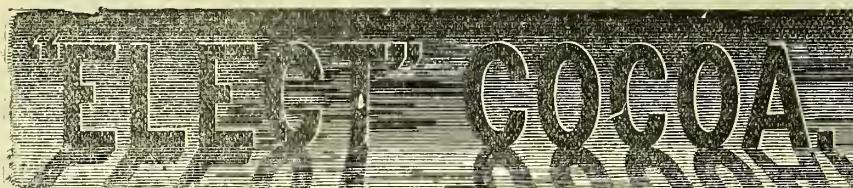
" The above are put up in Bottles of 1/ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosa, and some dozen of others. Diluted with forty parts of water, form the ordinary waters of the Pharmacopœia. They are excellent in quality, and will be very useful, especially in country practice." [1]

Wholesale Agents: HEARON & CO., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR,
B. ROBINSON, MANUFACTURING CHEMIST, D'SILLER, AND BREWER OF BRITISH WINES, MANCHESTER.



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The "MEDICAL PRESS AND CIRCULAR":—

"Certainly this preparation is of delicate flavour . . . It is perfectly soluble . . . the small quantity required for the immediate production of a cup of excellent cocoa will ensure for those 'Elect Extract' a favourable reception at the hands of persons of weak digestion, and all who prefer this wholesome beverage to tea and coffee."

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"Rowntree's Cocoa Extract is one of the best. Its flavour and aroma are good. Cocoa thus prepared is one of the most digestible articles of food."

YORK, ENGLAND.

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Every
Chemist is
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FREE FULL-SIZE
SAMPLE TIN.

"The . . . possess distinct
nutritive value."—*The
Lancet.*

"We can recommend
them to the notice of
the profession."—*British
Medical Journal.*

SUPPLIED TO CHEMISTS,
1/2 Tins, 10/6 per dozen.
Wholesale of all Wholesale Houses.

Manufacturer: H. B. CHIBNALL,
HAMMERSMITH, LONDON W.



THE BERKEFELD - NORDTMEYER FILTER.



THE LANCET, September 12, 1891:—
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Filtration.
Easy Cleaning and Sterilization.
All Descriptions Supplied.

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Three Styles

PERFUMED. Boxes of 3 doz. Tablets ...

UNSCENTED. Ditto ditto ...

TAR. Card boxes of 6 Tablets ...

Per gross Tablets.
24/- Assorted
if preferred.

CHEAPER, BETTER, AND MORE PROFITABLE THAN ANY SOAPS IN THE WORLD.

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Sole Proprietors and Makers of “VASELINE.”

HYPODERMIC**HYPODERMIC “TABLOIDS.”***Prepared by**BURROUGHS, WELLCOME & CO.***SOLUBLE, PERMANENT, PORTABLE**

The growing importance of the Hypodermic method, the marvellous results by it, the vast improvement in the instruments employed, and the perfection to which the Hypodermic “Tabloid” has been brought (to the utter displacement of unreliable and irritating solutions) are all matters of peculiar interest to the earnest practitioner. The alarming symptoms and the untoward physiological conditions so often experienced after the administration of ready-made, and often partially decomposed solutions are altogether avoided when the injection is prepared from the Hypodermic “Tabloid.” They are guaranteed to be absolutely accurate in dosage, do not alter, are really reliable and easily soluble, and can be thrown into solution in a few seconds.

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MEDICATION.

LIST OF HYPODERMIC “TABLOIDS” prepared by B. W. & Co.



Put up in Tubes, each containing from 12 to 20 “Tabloids,” at 12s. per doz. Tubes.

Aconitine Nitrate Crystalline, 1-260 gr.	Morphine Hydrochlor., $\frac{1}{2}$ gr.
Aponiophine Hydrochlorate, 1-10 and 1-15 gr.	(Morphine Sulphate, 1-12 gr.
Atropine Sulphate, 1-150, 1-100, and 1-60 gr.	(Morphine Sulphate, 1-250 gr.
Caffeine Sodio-Salicylate, $\frac{1}{2}$ gr.	(Morphine Sulphate, $\frac{1}{2}$ gr.
Cocaine Hydrochlorate, $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{2}$ gr.	(Atropine Sulphate, 1-200 gr.
Codeine Phosphate, $\frac{1}{2}$ gr.	(Morphine Sulphate, $\frac{1}{2}$ gr.
Cochineal, $\frac{1}{2}$ gr.	(Morphine Sulphate, 1-180 gr.
Conium Hydrochloride, 1-60 gr.	(Atropine Sulphate, $\frac{1}{2}$ gr.
Curaçao, 1-12 gr.	(Morphine Sulphate, 1-150 gr.
Digitalin, Crystalline, 1-100 gr.	(Atropine Sulphate, 1-100 gr.
Ergotinin Citrate, 1-100 and 1-200 gr.	(Morphine Sulphate, $\frac{1}{2}$ gr.
Eserine Salicylate, 1-100 gr.	(Atropine Sulphate, 1-100 gr.
Homatropine Hydrochlorate, 1-250 gr.	Pilocarpine Hydrochlor., 1-10, $\frac{1}{2}$, and $\frac{1}{2}$ gr.
Hydrarg. Perchlor., 1-60 and 1-30 gr.	Quinine Hydrobromate, $\frac{1}{2}$ gr.
Hyoscine Hydrobrom., 1-200 and 1-75 gr.	Selerotin Acid, $\frac{1}{2}$ and 1 gr.
Hyosciamine Sulph., 1-80 and 1-20 gr.	Sparteine Sulphate, $\frac{1}{2}$ gr.
Morphine Bi-Mecomate, 1, $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{2}$ gr.	Strophanthin, 1-500 gr.
Morphine Sulphate, 1-12, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{1}{2}$ gr.	Stychnine Sulphate, 1-150, 1-100, and 1-60 gr.

TO CHEMISTS AND ALL VENDORS OF PROPRIETARY MEDICINES.

NOTICE RELATIVE TO CONGREVE'S**BALSAMIC ELIXIR**

THE WORLD'S PROVED REMEDY FOR

**COUGHS, COLDS, HOARSENESS, ASTHMA, CHRONIC BRONCHITIS,
INFLUENZA, AND OTHER CHEST AFFECTIONS.**

In Bottles 1s. 1 $\frac{1}{2}$ d., 2s. 9d., 4s. 6d., 11s., and 22s.

This Medicine is Not Affected by the Pharmacy Act, and ALL PERSONS HOLDING A PATENT MEDICINE LICENCE MAY SELL IT. It MUST NOT be Labelled “POISON.”

PREPARED BY

G. T. CONGREVE, COOMBE LODGE, PECKHAM, LONDON, S.E.



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A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year, payable in advance, including a copy of the DIARY next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "EDWARD HALSE," and crossed "MARTIN'S BANK (LIMITED)."

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AMERICAN AND CANADIAN ISSUE.

WE remind advertisers that our next issue will be specially circulated amongst the wholesale trade and the pick of retail pharmacists in Canada and the United States. All exhibitors of druggists' goods in the World's Fair will also be included in the circulation, so that the opportunity will be an exceptionally good one for addressing a cosmopolitan class of buyers. We cannot receive advertisements for the issue after Tuesday next, so that firms should apply to the publisher for space without delay. Advertisements for the Supplement will be received up to Thursday as usual.

GUIDE TO THE PRELIMINARY EXAMINATION.

Price 2s.; by post, 2s. 3d.

By WILLIAM DODDS, Author of "Complete Guide to Matriculation," &c.

THIS book is already in large demand, and from private communications we are pleased to find that it gives great satisfaction. It is a systematic exposition of the examination by a highly competent authority, and will be found extremely helpful to candidates who are preparing for it either alone or under a tutor.

Any wholesale drug or sundries house will supply it at the published price. The following firms have already stocked it:—

Ayrton & Saunders, Liverpool
 Barclay & Sons (Limited), London
 Duncan, Flockhart & Co., Edinburgh
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 Maw, S., Son & Thompson, London
 Newbery, F., & Sons, London

Potter & Clarke, London
 Raimes, Clark & Co., Edinburgh
 Raimes & Co., York
 Smith, T. & H., & Co., Edinburgh
 Thompson, John, (Limited), Liverpool
 Woolley, James, Sons & Co., Manchester

Summary.

In our Photographic column we give notes on recent novelties, and of new processes.

THE discharge of Mr. Joe Todd, Carlisle, in bankruptcy has been suspended for three years.

SEE page 656 for announcement of a post-card competition on the Pharmaceutical Council election.

WE call attention in an Editorial note to some of the financial features of the Pharmaceutical Council's annual report.

WE have received the official programme of the International Pharmaceutical Congress, and briefly comment upon it.

THE golden wedding of Mr. and Mrs. Joseph Preston, of the firm of Thos. Hodgkinson, Prestons & King is recorded this week.

MR. DRUCE, the Oxford pharmacist, has sued a youth of noble birth for the price of a Kodak, and has lost his case on the ground of his customer's infancy.

IN connection with the prosecution of Van Houten & Zoon for the sale of their cocoa in Paris we give further particulars of their success in the case.

WE give some particulars of the pharmaceutical career of Mr. Arthur Coningham, one of the members of the Australian cricket team now opening their campaign in this country.

THE Bristol County Court Judge, in a judgment against an unqualified drug-store man who sold poisons, has expressed his opinion of the value of the provisions of the Pharmacy Act.

WE devote a page of this issue to news from Australia. Included therein are reports of the New South Wales and Victoria Societies' annual meetings, and two cases of poisoning with eucalyptus oil.

MR. JUSTICE STIRLING has confirmed the resolution of Sequah (Limited) to reduce the capital from 300,000*l.* to 150,000*l.* Incidentally some interesting particulars regarding the company's losses were laid before the Court.

A LEEDS sponge-merchant has brought an action against Messrs. Cresswell Brothers & Schmitz, alleging fraud in connection with a sponge transaction. The jury, without waiting for the defendants' evidence, gave a verdict in their favour.

THE Chemists' Assistants' Association has completed its sixteenth session with a balance of about 5*l.* on the wrong side. New officers were appointed. The Cambridge Association has closed its first session by the election of officers.

THE Magistrate at Hanley has asked the Somerset House chemists to decide whether dilute acetic acid containing 10 per cent. of malt vinegar may be sold for vinegar or not. The Magistrate was of opinion that he was bound by the British Pharmacopoeia.

ON the occasion of the anniversary of Hofmann's death Lord Playfair, Sir F. A. Abel, and Dr. W. H. Perkin delivered memorial addresses to the Chemical Society, which were interesting autobiographical sketches, referring to the association of the speakers with Hofmann.

SEVERAL interesting papers were read at the Chemical Society's ordinary meeting last week. Mr. Pickering has proved the existence of six hydrates of NaOH; Dr. Richardson finds that when urine is exposed to light hydrogen peroxide is formed in the liquid; and Dr. John Clark shows what are the best conditions for testing for arsenic.

SOME members of the Irish Pharmaceutical Council complain that they were not fully reported last month. The President reviewed the important decision in the Queen's Bench ruling that Magistrates were not entitled to amend a summons in respect to the sale of a poison so as to transfer it from section 30 of the principal Act and bring it under section 17 of the amending Act, thus enabling them to reduce the penalty.

English News.

A "Noble" Customer.

In the Oxford Vice-Chancellor's Court, on Friday, Mr. G. Claridge Druce, pharmaceutical chemist, High Street, sued the Hon. Anthony M. Henley, an undergraduate of Balliol, son of Lord Henley, for 14*l.* odd, the price of a Kodak photographic camera and accessories which had been supplied to him. The defence was a plea of infancy.

The defendant admitted that he was allowed 300*l.* a year, but his counsel stated that within the first year of his academic studies in Oxford he had debts hanging over him amounting to something like 1,000*l.* This statement was corroborated by Lord Henley, who said his son would not be of age until August, 1894. The defendant, in cross-examination, stated that the reason he pleaded infancy was that he had so many debts which he had no prospect of paying.

Professor Holland, the assessor, in giving judgment for the defendant, with costs, said that, while he did not commend the conduct of the defendant, tradesmen must protect themselves in such matters, and not look to that Court to do it. Lord Henley did good service to the State by pleading infancy, because it was a lesson to tradesmen that they must not supply things to young men in that way which were not absolutely necessary to their maintenance. The decision was received with applause by a few undergraduates present.

Bolton Chemists Meet.

On Wednesday, May 3, the chemists of Bolton met in response to an invitation from Mr. W. B. Mason. The invitation to meet was sent out at the suggestion of some of the members who attended the larger meeting in Manchester a few weeks ago. Mr. Mason was voted to the chair. The meeting then fully discussed the question of organising the trade in the town. Following this, on the motion of Mr. John Taylor, seconded by Mr. W. R. Blain, it was decided to resuscitate the old Bolton Association of chemists. Mr. W. B. Mason was elected President, Mr. John Teebay Vice-President, Mr. W. R. Blain Treasurer, and Mr. John Taylor Secretary.

British Medical Association.

The arrangements have now been completed for the Museum to be held on the occasion of the meeting of the Association at Newcastle-on-Tyne, during the first week of August next. The sections of the museum devoted to foods, drugs, surgical appliances, &c., will be placed in the College of Medicine, Northumberland Road. Dr. G. R. Murray, 2 Saville Place, Newcastle, is the Secretary for the food and drugs section, and Mr. W. G. Richardson, F.R.C.S., The Dispensary, Newcastle, acts as Secretary for the surgical department.

Fires.

On Wednesday afternoon, May 3, a fire broke out at Mr. Thomas Hulme's pharmacy, 183 Rochdale Road, Bury St. Edmunds. Mr. Hulme had placed a bottle containing methylated spirit on the hob beside the kitchen fire, and on taking it up the bottom dropped out, with the result that the contents caught fire and ignited the hearthrug and some furniture. The fire was smartly extinguished. Five pounds will cover the damages.

A rather serious fire occurred on the premises of Mr. Walter Leadbitter, chemist, Union Street, Sunderland, on Wednesday evening. It was conquered within an hour of being discovered, but considerable damage was done to the stock both by fire and water.

Slept in the Road.

William Appleby, who had been for fourteen years a chemist and druggist at Colyton, was charged last Friday, on remand, before the Exeter Magistrates, with sleeping in the Cowley Bridge Road. At the previous hearing the defendant's antecedents were unknown. Mr. Gould, solicitor, Exeter, who now appeared for him, said he had been asked by Mr. Mortimore, a solicitor of Colyton, who knew Appleby, to appear on his behalf. The defendant, who was an associate of the Pharmaceutical Society, had carried on business in Colyton, where he was much respected, for fourteen years. Owing to severe

domestic affliction he had quitted his business, and had been wandering about. If the Bench would discharge the defendant, he would enable him to return to Colyton. The Clerk: Can you give any guarantee that he will not repeat the offence? Mr. Gould: I am afraid I cannot do that. The defendant tells me he has surplus stock to be realised at Colyton. The Chief Constable remarked that the defendant had been under the observation of the police for the past six weeks, and had sometimes slept in the cells at the police-station. It was difficult to reconcile defendant's conduct with the fact that he had surplus stock. The Bench remanded the case for a fortnight, but released the defendant from custody, in order to allow him to return to Colyton. The Chairman added that if defendant was found again in the city he would be committed to prison with hard labour. The Defendant: I shall not repeat the offence.

A Chemist's Widow Poisoned by Laudanum.

A sad case of laudanum-poisoning was the subject of an inquest by Dr. Thomas, on Saturday last. On the previous Sunday, Mr. H. E. Godfrey, a chemist and dentist, of 24 Park Terrace, Marylebone, died from heart-disease. His widow, Emma Godfrey, aged 51, and stepson Ernest, were at home. On the Wednesday morning Mrs. Godfrey had a pain in her side, and the stepson, who was afterwards declared to be insane, got her some laudanum from the shop and administered it. Mrs. Ashton, Terrell Road, East Dulwich, said she found the deceased, who was her sister, in an unconscious state on Wednesday morning, and the stepson, who was present, said, "Well, if the woman dies it cannot be helped. I will see what the law says about it." Then he began to read a paper. Dr. Norman Kerr saw deceased, and found her suffering from narcotic poisoning. In a conscious interval she said she had got her son to give her laudanum on lumps of sugar. She sought to screen the boy from blame. A verdict of death from misadventure was returned. The lad was removed to an asylum.

Carbolic-acid Poisoning.

A married woman named Mary Ellen Measer, aged 34, residing at Derwent Street, West Hartlepool, purchased three-pennyworth of carbolic acid from a chemist's, and was seen to swallow half of it in the street, and fall to the ground. She was conveyed home and emetics and the stomach-pump used, but she died within an hour. She leaves two young children.

On Sunday evening last, at 15 Derby Street, Broughton, a child, aged one year and seven months, belonging to a person named Garron, was playing in one of the bedrooms with other children, when, unseen by any of them, she took some carbolic acid which had been placed in a saucer in the room for disinfecting purposes. The child died the same night from the effects of the poison.

Suspicious of the Drug-bills.

Mr. Wilkinson, a new member of the Lewisham Union Board of Guardians, has given notice to move at the next meeting of the Board that the Finance Committee be requested to carefully examine, in reference to the prices paid, the contracts for the purchase of drugs.

Drugs in Poplar.

Mr. W. C. Young, analyst to the Poplar Board of Works, reports that during the past quarter he has analysed eight samples of lime-water, six of which he found of proper strength, and two deficient in lime. Four samples of tincture of quinine were analysed, three of which were found genuine. Six samples of vinegar were all genuine.

Agricultural Scholarships.

The Council of the Durham College of Science, Newcastle-upon-Tyne, is offering to each County Council in England the right of nominating a scholar who shall attend the course of instruction in the Agricultural Department of the College, without fees, on condition that the County Council pay to the scholar not less than 30*l.* towards the cost of his maintenance in Newcastle. The scholarships will be tenable for one year at least.

Horse-poisoning.

At the Buckrose (East Riding) Petty Sessions, on Saturday last, Robert Mowthorpe, farm servant, in the employ of Mr. John Houlden, of Langton, was charged with administering a poisonous drug to a horse belonging to his employer. The defendant had got what is generally called by farm servants "mercury," but which is really arsenic in powder, and had given some to the horses to improve their appearance. The horses under his charge became ill, and one worth 60*l.* died. He now admitted the offence, and was fined 5*l.* and costs. He stated that he bought the poison of a certain chemist at Malton, but Mr. Estill, solicitor, on behalf of that gentleman, denied this, and said he had not for several years kept arsenic in powder in his stock at all. The Bench accepted the disclaimer.

Allegations against a Chemical-works Manager.

At Stockport on Monday last, Herbert Finch, sen., and Herbert Finch, jun., father and son, were charged with stealing a number of articles from the Marble Chemical Company. Mr. F. Brookes, solicitor, Manchester, represented the prisoners, and Mr. J. W. Johnson, Stockport, the company. Finch, sen., is a prominent Freemason, occupies a good social position, and was formerly manager for the company. The case is said to be more of a civil than criminal nature. The accused were remanded, and bail was accepted.

The Herbalist's Mixture.

At the Star and Garter, Battersea, last week, the adjourned hearing into the circumstances of the death of a child named Sarah Crouch was concluded before Mr. Braxton Hicks and a jury. The child was the daughter of a labourer residing at Battersea, and had been suffering from whooping-cough. Some medicine was obtained from a Mr. Dowling, a medical herbalist, of York Road, and some other medicine from a Dr. Northcott, who practises in the neighbourhood. The inquest had been adjourned in order that the medicines should be analysed by the Home Office authorities.

Dr. Stevenson now stated that he had analysed the internal organs of the stomach, and had found no trace of poison or noxious substance. He had also analysed the mixture supplied by Mr. Dowling, and had found that it did not contain any deleterious matter, but it showed very strongly the presence of acid. From what he had learned of the whole case, he had formed the conclusion that the death of the child was due to convulsions consequent upon the whooping-cough. It was just possible that the medicine did irritate the throat. Probably a child would resent such an acid mixture.

Mr. Dowling: Would 1 drachm of acetic acid in a 4-oz. bottle of mixture give the result which you have noticed?

Dr. Stevenson: There was rather more than that.

Mr. Dowling: Then it must have been placed there by someone else.

The Coroner: The doctor only suggests that there was rather more than you say.

Mr. Dowling: I have served under duly qualified practitioners, and I have a good reputation to uphold. I repudiate having used more acid than I have already stated.

The Coroner: How could anyone else have placed it there? The probability is that the parents do not know what acetic acid is. You must cease to make these observations, and if you do not I shall have to ask you to leave the court, as it is not a place for advertising your business.

Mr. Dowling: I do not want to advertise myself. All I want is justice and right.

The jury, after hearing other evidence, gave a verdict in accordance with the testimony of Dr. Stevenson.

Only a Chemical-agent.

In the Westminster County Court, on Tuesday, before Mr. Deputy-Judge Scott, in the judgment summons case of Cruickshank *v.* Matthews, it was stated that the defendant was a chemist's traveller, and was able to pay a certain debt. The defendant said he was a chemical-agent, residing at 26 St. Ann's Court. He was merely a servant, and had no fixed wages, but worked on a small commission which usually amounted to about 12*s.* or 16*s.* a week. Order for payment of 5*s.* a month.

The Consequence of Using Other People's Bottles.

In the Westminster County Court, on Tuesday, his Honour Deputy-Judge Scott had before him, on a judgment summons, the case of the London and Westminster Loan Company *v.* Osler. The defendant said he had been previously engaged in the mineral-water trade, but had been ruined in consequence of having been convicted and sentenced to eight months' imprisonment for having put his mineral waters into other people's bottles. He had absolutely nothing in the world, as his business and his home had all been taken from him. His Honour said he was quite satisfied that the defendant had no means, and he could make no order.

Sufficiently Punished.

At the Oldham County Court, on May 5, Mr. J. Ascroft made an application on behalf of a bankrupt named George Neale, formerly carrying on business as a chemist and druggist at 15A Market Street, Bacup, who had been committed to Knutsford Gaol for absconding. In his affidavit the bankrupt stated that he had been in a situation at Gloucester, and when he went away he had no intention of absconding from his creditors. As soon as he knew a warrant was out for him he gave himself up. He humbly apologised to the Court, and was willing to submit to examination. His Honour granted the release of the debtor.

The Hours of Labour in Pharmacies.

The chemists of Chippenham have agreed to close their establishments at 2 o'clock on Wednesdays during the summer months.

There seems a possibility of the early closing movement among chemists falling through in Aston-juxta-Birmingham, on account, it is said, of the discovery that one or two pharmacies are closing their doors but not fastening them. The Wednesday half-holiday forms part of the recreation which is presumed to be enjoyed in this district in addition to the usual modification of evening hours.

A False Report.

The *Daily Chronicle* published a Central News telegram on Tuesday stating that late on Monday the well-known patent-medicine firm of H. H. Warner, of Rochester City, New York, had made an assignment of the company's affairs. The liabilities, it was added, were expected to reach an enormous figure. The next day the *Chronicle* published a letter from Messrs. Kerby, Son & Verden, of 14 Great Winchester Street, E.C., who said they were instructed, on behalf of the Hon. H. H. Warner, to inform the *Chronicle* that that there was absolutely no truth in the statement.

Subsequent information shows that Mr. Warner has himself made an assignment. He had, it appears, involved himself in heavy transactions with another Rochester financier, and in other transactions. In our Supplement this week, however, Messrs. H. H. Warner & Co. (Limited) announce that Mr. Warner's financial embarrassments in the United States in no way affect their business, which is on a perfectly sound business basis. They add that they are preparing to advertise the Safe Cures more extensively than ever.

Rival Claims on a Chemist.

At the Cardiff County Court, last week, his Honour Judge Owen heard an interpleader action in reference to claims on Mr. W. G. John, chemist, of Penarth. Messrs. Fox & Co., wholesale chemists, of Bristol, and Messrs. Meggeson & Co., London, had issued executions against John's effects, but a Mr. H. Arkell claimed John's goods under a bill of sale. For the claimants it was contended that the bill of sale was a bogus transaction, but the Judge refused to admit that view, and gave judgment in Arkell's favour, with costs against Messrs. Fox and Meggeson.

A Chemist's Traveller Convicted.

At the Lambeth Police Court on Tuesday, before Mr. Biron, George Henry Thomas, described as a chemist's traveller, was charged with having embezzled the sum of 1*l.* 18*s.* 9*d.* received by him from a Mr. King, a chemist, for and on account of his employer, Mr. John Henry Spence, a patent-medicine dealer carrying on business at Camberwell New Road. It appeared from the evidence that the prisoner had been employed by Mr. Spence as a traveller and collector. It was proved that he had received this money from Mr.

King, and had not accounted for it. Upon being taken into custody prisoner said he would admit having embezzled moneys belonging to his employer to the extent of about 15*l.* Mr. Spence said he did not wish to press the charge against the prisoner, although he had acted in a very bad manner. Mr. Biron said he would take into consideration what Mr. Spence had said, but he could not regard the case as any other but a very bad one. He must pass a sentence of three months' hard labour.

White Vitriol for Epsom Salts.

Samuel Webb and his wife, a young couple residing at Raunds, Northamptonshire, made a serious mistake on May 14. They were both unwell, and decided that they would both take a dose of epsom salts. They took sulphate of zinc instead. They are believed to have taken about $\frac{1}{2}$ oz. each. Medical aid was obtained, and though both suffered severely their lives were saved.

Irish News.

100*l.* Damages for a Dog-bite.

Mr. John Mallin, a manufacturing chemist, 89 Upper Dorset Street, Dublin, brought an action against the Great Southern and Western Railway to recover 200*l.* damages for personal injury sustained by him through the bite of a dog, owing to the alleged negligence of one of the company's servants at Portarlington Railway Station. The case was heard before the Lord Chief Justice on Wednesday, May 3, when it transpired that at the railway station at Portarlington a porter had a dog in charge, attached by a chain to a barrow; plaintiff was tripped up by the chain, and the dog (a small terrier) turned round and bit him. He was wounded, and so lame that for some time he was prevented from attending to his business.

The jury found a verdict for the plaintiff, with 100*l.* damages.

Scotch News.

Half an Ounce of Nitroglycerine Explodes.

Mr. George Hosie, chemist at Nobel's Ardeer Factory, Saltcoats, was working in the laboratory engaged in the purification of nitro-glycerine when about $\frac{1}{2}$ oz. contained in a bottle exploded. He was cut about the hands and face, and sustained a shock to the system. Another man in the laboratory received a slight cut in the neck. No injury was done to the building.

Fuller's Earth at Dunning.

The village of Dunning, near Crieff, has a new industry within its borders, for there the Scottish Fuller's Earth Company have taken up their headquarters, and are working a bed of fuller's earth in the neighbourhood. This bed is on Lord Rollo's estate, and was discovered thirty years ago when Duncrub House was being built. The nature of the deposit was recognised. Dr. John Clark, late of Hertford Street, London, became much interested in the discovery, and introduced it to the notice of the late Dr. Percy, the metallurgist, Sir Alfred Garrod being consulted as to its utility. The result proved that, after various manipulations, the earth can be produced free from mechanical impurities and, what is still more rare, it possesses a delicate flesh tint. The company, which has been formed under the management of the Hon. Bernard Rollo, has laid down extensive machinery and plant for the purification of the earth. The tank-room contains five settling-tanks, 80 feet long by 9 feet broad, the rest of the accommodation being occupied by kilns, boiler-house, engine, &c. There is also a packing-house 84 feet in length, and in the village of Dunning there is a large kiln-drying and finishing mill. The chief difficulty hitherto experienced has been the unwillingness of the railway companies to adjust their rates so as to place Dunning on equal terms to compete with Bath. The rates have now been slightly reduced.

Fire.

A fire occurred in the wholesale premises of Messrs. Duncan, Flockhart & Co., in South Back Canongate, Edinburgh, on Saturday last. The outbreak originated in the top floor, used as a store-room. The premises are fitted with automatic sprinklers, and the first intimation that the employés had of the fire was by the water from these coming through the ceiling of the room underneath. The heat had turned on the sprinklers, but the alarm apparatus had not worked. The flames were soon extinguished, but considerable damage was done by the water.

Botanical Excursions.

The Edinburgh Chemists', Assistants', and Apprentices' Association have arranged for five botanical excursions during the summer months. The dates fixed are May 24, June 14 and 28, and July 12 and 26. Three of the excursions will be in the morning and two in the evening.

Early Closing!

In Edinburgh the term "early closing" is apparently somewhat indefinite, if one may judge from the following advertisement, which appeared on Monday in one of the evening newspapers published in the city:—"Early closing. Medical Laboratory.—On and after May 8 the above premises will be closed at 9 p.m.; Saturday at 10.30."

French Pharmaceutical News.

(From our Paris Correspondent.)

LONG SERVICE.—Mr. Swann, the English chemist of the Rue Castiglione, has lately obtained for one of the employés in his wholesale department the Government medal and decoration awarded for thirty years' service in the same employment. He has another servant—this time a woman—who is within a few months of qualification for the same distinction, and three others who will be entitled to it within the next three to five years.

DOWN WITH THE MISTLETOE.—A decree has just been issued to the proprietors of the Normandy apple orchards to the effect that in future all mistletoe must be removed from the apple-trees. The reason given is that this vivacious parasite absorbs the sap from the trees to the detriment of the fruit. There is consequently likely to be a dearth of mistletoe in England next winter, a great deal of that sold at Christmas coming from Normandy.

SPECULATION IN PHARMACY.—The site of the old post-office at Passy, one of the residential quarters of Paris, has been secured by an enterprising firm who are converting it into a pharmacy on modern principles. The people in question appear to have made a speciality for some years past of starting businesses in this way with a view of disposing of them subsequently at a profit. In the present instance they have a good deal of competition to contend with, as there are ten well-established pharmacies within from three to six minutes' walk.

LEAVES AS FOOD FOR CATTLE.—At the last meeting of the Academy of Sciences M. Dehéraïn read a paper by M. A. Ch. Girard on the use of the leaves of trees as food for cattle. As the result of numerous analyses, in which he passes in review the different eatables for quadrupeds, the author comes to the conclusion that leaves constitute a fodder which, in either a fresh or dried state, would be equal to the best natural or artificial products of the field. This opinion, drawn from the chemical study of the question, is confirmed by experiments on the digestive capabilities of cattle.

ENTERPRISE IN PHARMACY.—There is, near the Gare du Nord, in this city, a large pharmacy, established some eight years ago, which has been particularly noted for low prices. The proprietors claim that it is the largest chemist's shop in Paris, and certainly, as far as frontage goes, it is somewhat imposing. The pharmacy is long and narrow, about half being devoted to meeting directly the demands of the public. The brisk trade done there in the evening reminds one more of

a popular grocer's shop than of the semi-professional French *Officine*. Huge gilt letters on the front of the large apartment-house in which the pharmacy is situated form a bold advertisement, and a copious catalogue offers the invalid a plentiful choice of medicaments at the very lowest prices. The latest addition to this enterprising home of pharmacy is a somewhat elaborate cart, brilliantly painted with advertisements in blue and yellow. It is drawn about the streets of Paris by a pair of smart horses at a pace that is doubtless intended to produce an idea of lively business.

POISONED BY CHOCOLATE DROPS.—A sensational trial was concluded at the Troyes Assizes, on Tuesday last, by the acquittal of M. Numa Collas, assistant-secretary to the Mayor of Bar-sur-Aube, on the charge of murdering the secretary by poisoning him with strychnine contained in chocolate drops. It was proved that M. Collas offered his senior some chocolate, which the latter took and afterwards commented on its bitterness. M. Collas offered another to take away the unpleasant taste. A few minutes later the secretary fell to the ground in fearful convulsions. He suffered from a terrible thirst, and drank several quarts of water. Within a quarter of an hour he was dead, and his last words were a formal accusation of poisoning against his assistant. Collas was arrested, and a small box containing strychnine and glucose was found upon him, while the *post-mortem* examination proved that the secretary, M. Jules Maitre, had met his death by strychnine-poisoning. The jury found themselves unable to accept the theory that Collas had intentionally administered the poison, and he was, therefore, acquitted.

COMMERCIAL LIBERTY.—An interesting commercial case was heard last Saturday at Lyons, which shows that a monopoly of trade in France is a disputed point of law. The following are the facts of the case:—Eighteen wholesale mineral-water dealers, some of whom are chemists, at Lyons, constituted themselves, in 1892, as a Syndical Chamber and made contracts with various proprietors of mineral waters for the exclusive delivery of their products. This combination deprived the dealers who had not joined the syndicate of their sources of supply. Consequently they commenced an action against the members of the syndicate, under article 419 of the Penal Code. This forbids the formation of any coalition for the purpose of securing the exclusive control of any merchandise or product. The case was first heard on January 12 last, when the eighteen members of the Syndical Chamber were each condemned to pay a fine of 100f., also a certain sum as indemnity to the mineral-water dealers who prosecuted. The trial on Saturday last was in consequence of an appeal on the part of the defendants, and the Court deferred judgment.

Foreign and Colonial News.

THE PHARMACEUTICAL SOCIETY OF ST. PETERSBURG will celebrate its seventy-fifth anniversary in September next.

THE "PHARMACEUTICAL RECORD," Professor P. W. Bedford's old paper, has been amalgamated with the *American Druggist*.

SIX HUNDRED POUNDS DAMAGE was done by fire on April 13 on the premises of Messrs. Gardner & Co., chemists, Port Elizabeth.

HOFMANN.—The subscriptions towards the erection of a Hofmann House in Berlin now amount to 120,734m. Professor Hofmann's widow has presented her husband's scientific library, numbering some 2,000 volumes, to the institution.

COMPETITION IN PHARMACEUTICAL DEGREES.—The Trinity University of Toronto, apparently jealous of the Toronto University which has recently affiliated to itself the Ontario College of Pharmacy for the purpose of granting the degree of Phm. B., has resolved to grant the same degree to those who care to be examined for it this month.

A WORLD'S CONGRESS OF CHEMISTS will be held at Chicago, U.S.A., during August. The exact date is not yet

fixed, but it will be towards the end, probably after the International Pharmaceutical Congress. The entire field of chemistry will be covered, ten sections having been constituted. A Homeopathic Congress is to be held at the end of this month.

ADVERTISING ON POSTAGE-STAMPS.—A New Zealand subscriber sends us a penny postage-stamp of the colony, upon the back of which, printed in magenta ink, is the advertisement "Beecham's pills purify the blood." This is new in the colony, and as the words are printed upon the gummed surface we take it that the advertiser and the Colonial Government have not combined to reduce the cost of printing the postage-stamps.

CINCHONIDINE IN INDIA.—We reported in October last that the Government of India do not propose to make cinchonidine sulphate there, as had been suggested, because they could import it cheaper from England if need be. Dr. King, superintendent of cinchona cultivation, now recommends that, instead of trying to make cinchonidine sulphate, it would be more economical to crystallise the alkaloids in the precipitates during the process of making quinine and cinchona febrifuge. He adds that an even cheaper plan would be to convert the quinine and cinchonidine into tartrates, without attempting to separate them, and to issue it as a tartrate of quinine and cinchonidine.

MURDER OF A DRUGGIST.—The *Indiana Pharmacist* reports the murder of Mr. Charles E. Eyster, an Indianapolis druggist. Mr. Eyster was closing up one night at 10 last month when two young negroes came in and called for a pack of playing-cards. The cards were handed over and paid for, the men stepped outside the door, looked carefully up and down the street, re-entered, and asked to exchange the cards for cigarettes. Mr. Eyster cheerfully acceded to the request, with some pleasant remark, when one of the negroes drew a pistol, saying, "Oh, you're good enough to be an angel," fired across the counter, the bullet entering the abdomen, inflicting a wound from which the druggist died next day. Mr. Eyster was a young man of twenty-eight, recently married.

THE BOTANY OF TIBET.—Dr. Thorold, who, in 1890-91, accompanied Captain Bower's expedition through Tibet as a scientist, collected specimens of all the plants he saw during his journey across the country from west to east. The collection contains only 115 species, all told, showing the poverty of the Tibetan flora in the district traversed; a poverty which, however, is not astonishing considering that the greater part of the route lay over a country as high above sea-level as is the top of Mont Blanc. The 115 species belonged to no fewer than twenty-eight natural orders, and only about half-a-dozen species were quite unknown at Kew. One flowering-plant was collected at an altitude of 19,000 feet—probably the highest point on record in the history of botany.

U.S.A. TRADE-MARKS.—The following marks were registered at Washington, on April 25:—"Sanmetto," for remedies, Od Chemical Company, New York City; "Hydrastol," for a remedy and atomizers. McKesson & Robbins, New York City; "Columbian Catarrh Cure," for remedies for catarrhal diseases, J. F. Paine, Providence, R.I.; "Pain Smasher," and design, for remedies for toothache, headache, &c., W. A. Davis, jun., Macon, Ga.; "Phytoline," for an anti-fat and rheumatiocide, Walker Pharmacal Company, St. Louis, Mo.; "Asthmador," for medicine, R. Schiffmann, St. Paul, Minn.; "Tain-a-cura," for a medicine to prevent leanness, E. M. Peals; "Romany," for medicines, George Bamford, Sacramento, Cal.; "Pineapple Digestor," for remedies, T. E. Richards, Eden, Fla.; "Pilloid," for pills and tablets, F. Stearns & Co., Detroit.

PEDESIS.—In the course of a paper read to the Liverpool Microscopical Society, last Friday (May 5), Mr. J. Davies, F.C.S., stated that the detergent properties of soaps and alkaline solutions is in a large measure due to the power which these substances have of accelerating the vigorous oscillating motion of exceedingly minute particles suspended in fluids.

AUSTRALASIAN NEWS.

THE following notes are based upon information contained in the April number of the *Chemist and Druggist of Australasia*:

DRUG-TRAVELLERS IN NEW ZEALAND.—Mr. H. A. R. Du Rieu has lately been busy in Auckland pushing the specialities of Parke, Davis & Co., particularly ext. malt preparations. One very good line introduced by the firm is rhubarb fingers, put up in 1-lb. boxes containing ninety pieces of the best rhubarb, compressed into blocks. Mr. Williams, of Pears' Soap, has also been making his tour of the colony, and the representatives of Hood's Sarsaparilla and Scott's Emulsion have been busy pushing the sales of their specialities.

KEMPTHORNE, PROSSER & CO.'S DIVIDEND.—The fourteenth annual meeting of shareholders in Kempthorne, Prosser & Co.'s New Zealand Drug Company (Limited) was held on March 16, at Dunedin. The report and financial statement showed a net profit for the year (after making provision for the loss sustained on stock and buildings from the Christchurch fire), of £6,228*l.*, of which an interim dividend paid on July 1 had absorbed £3,285*l.* Another dividend of the same amount (7*1*/₂ per cent.) to January 31, 1893, was declared. The retiring directors, Messrs. William Elder and F. S. Grimwade, were re-elected. During 1892 the expenditure on the acid and chemical works was increased by about 3,000*l.*, due to necessary additions to the Auckland and other works. The outstanding accounts show an increase of about 3,000*l.*, and it was reported that business was sound and payments well met.

ALLEGED DANGERS OF EUCALYPTUS OIL.—Two deaths from overdoses of eucalyptus oil are reported. One is of a bootmaker at Geelong, who was suffering from influenza, and took a dose of eucalyptus oil one night before retiring to rest. Next morning he was found dead in bed, a bottle of eucalyptus oil standing near, from which about an ounce had been taken. It was found that the cause of death was influenza, accelerated by the weak state of the heart and an overdose of eucalyptus oil. The other case was that of a little boy of ten, who died at New Norfolk, Tasmania, after having taken a tablespoonful of eucalyptus oil thinking it would cure his cold. Twelve hours afterwards the doctor was called, too late to save him. The jury returned a verdict of death from overdose of eucalyptus oil, adding a rider that manufacturers and retailers of eucalyptus oil should use labels warning people against an overdose. The depositions in this case were forwarded by the Attorney-General to the Pharmaceutical Society of Tasmania, and at a special meeting of the Council of that body, convened for the purpose of considering the matter, a resolution was carried unanimously—"That the Council are of opinion that it is very doubtful whether the child died from poisoning by eucalyptus oil at all, and that as to labelling eucalyptus oil 'Poison,' or with a 'Caution' label, they are of opinion that this is quite unnecessary, the oil having been sold without any such labels for about thirty years, and no danger to the public having resulted."

THE VICTORIAN SOCIETY'S ANNUAL MEETING.—The thirty-sixth annual meeting of the "Pharmaceutical Society of Australasia," by which title the associated Chemists of Victoria call themselves, was held on March 15, at the College of Pharmacy in Melbourne, Mr. Jos. George, J.P., the President, being in the chair. The interest manifested in the proceedings by the pharmacists of the colony was exceedingly slight, only fourteen members (including the President and Secretary) being present at the opening of the proceedings—a number insufficient to form a quorum. Five other members subsequently turned up, when there were sufficient to go on with the proceedings. The election for Council members was declared to have resulted in the return of Messrs. Thos. A. Blackett, of Williamstown (174 votes); David A. Simpson (171 votes); Joseph George, Brunswick (151 votes); and Samuel Strutt, East Melbourne (133 votes). Messrs. Albert E. Hughes, N. Melbourne (127 votes); Jas. C. O'Kearney, South Yarra (124 votes); and Edward George Owen, Melbourne (117 votes) failed to get elected. The roll of members reflects the depressed financial conditions, for it has lost 22 names (exactly the number gained in the

previous year), and now stands at 364, exclusive of life members. The President greatly regretted that the prospects of intercolonial reciprocity in the matter of examinations had made no material gain. The proposition by the Victorian Pharmacy Board, that a common Preliminary examination paper should be adopted by Victoria, South Australia, and Tasmania, the examination to take place simultaneously, if adopted, he thought, would have been a step in the direction indicated; but it was indifferently received, and has not resulted in anything tangible. Some hopes were held out that the overtures might be reopened in the course of the present year.

THE TASMANIAN EUCALYPTUS-OIL COMPANY'S WORKS.—A representative of our Australian journal who recently visited the works of this company at Lady Bay, in company with Mr. E. R. Ash, the Registrar of the Pharmaceutical Society of Tasmania, reports that the output is at present about 600 lbs. per week. The leaves are brought in sacks to the jetty by craft. They are collected by the settlers all down the channel, who cart them to their nearest jetties ready for the craft, or send them in bullock-waggons. When the sacks are opened, the leaves are sorted so that only blue gum (*E. Globulus*) shall get into the tanks, and there seems no lack of these. Steam is supplied by a large 40-h.p. Tangye engine, and the tanks are made of boiler-iron (not the ordinary square tanks), so that they will stand pressure. There are three tanks, each capable of holding over a ton of leaves; the massive covers weigh 5 cwt. each, but by means of a traveller beam they are lifted on and off with perfect ease. A light tramway is constructed from the tanks, so that when the spent leaves are taken out they can be shifted to a distance very easily. There is a good arrangement for discharging the spent leaves—viz., a chain cage, which lifts the whole mass out at once, and is a vast improvement upon the old system of forking out the leaves.

ANNUAL MEETING OF THE PHARMACEUTICAL SOCIETY OF NEW SOUTH WALES.—The annual meeting of this Society was held on Tuesday afternoon, March 21, at the Pharmacy Board rooms, Phillip Street, Sydney. Mr. H. S. Brothwood, the President, was in the chair, and about twenty members were present. The financial position of the Society is fairly satisfactory, the receipts for the year 1892 having been £271*l.* 17*s.*, and the expenditure £211*l.* 7*s.* 7*d.* The assets of the Society are now estimated at £529*l.* 15*s.* 6*d.* The Chairman, in moving the adoption of the report and balance-sheet, spoke hopefully of the prospects of the Pharmacy Bill, which has been framed by the Pharmacy Board of the colony, and which the Colonial Treasurer has promised to bring before Parliament. There has been a falling-off in the social functions connected with pharmacy, and the President proposes to take steps to institute an annual dinner, which he hopes will bring together members of the trade and scientists in the colony, and induce them to take a greater interest in the Society. Unfortunately, the President could not congratulate members upon the commercial aspect of affairs in the colony. The depression in business circles, added to the imposition of the new duties, he said, had shorn pharmacists of a considerable portion of income. The Council had interviewed the Colonial Treasurer and the Collector of Customs in reference to the exceedingly heavy tax upon the chemists, but were only successful in getting some crude drugs and hospital requisites admitted free. After the President's address the report and balance-sheet were adopted, and Mr. Melhuish, a retiring councillor, made things hum for a while by a brisk and acerbitous altercation with the President and other officials on some points relating to the advertising of the candidates for election to the Council, in connection with which matter Mr. Melhuish accused the officials of irregularity. The President finally told him he was splitting straws, and his grievances were not worth replying to, while Mr. Melhuish gently accused his adversaries of following a hushing-up policy. In the end Mr. Melhuish scored a triumph, being re-elected as a councillor at the head of the poll by 44 votes, together with his other retiring colleagues. Two new candidates were nowhere.

THE PRESCRIBER'S TONGUE.—Jinks (examining his prescription): "These doctors are awfully fond of Latin, aren't they?" Filkins: "Yes; it's a dead language, you know."

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held at the Society's House, 67 Lower Mount Street, Dublin, on May 3, at 3 P.M. Present: the President (Mr. William Hayes) in the chair, the Vice-President (Mr. Beggs), and Messrs. Grindley, Wells, Charles Evans, Dr. Burnes, Conyngham, Professor Tichborne, Hodgson (Treasurer), Simpson, Downes, and Boyd.

THE REPORT OF THE LAST MEETING.

After the minutes had been read by the REGISTRAR (Mr. Ferrall),

Mr. GRINDLEY said he wished to make a few remarks about the report of the proceedings of the last meeting of the Council which appeared in the journals. It was, he thought, rather incorrect. He was asked twice what he wished should be done in reference to a matter which was before the Council at that meeting; but the report did not contain his answer to the question, although he remembered very well having made a statement to the effect that inasmuch as a majority of the Council had expressed an opinion in favour of his contention with reference to the young man whose admission to the Licence examination was the subject of discussion, and having regard to the fact that the young man was at the time actually under examination, he did not wish anything further to be done in the matter, but he hoped there would be no more hugger-mugger tricks of that sort. All that was omitted from the report. Mr. Evans then took exception to the words "hugger-mugger tricks," and he (Mr. Grindley) substituted the word "topsy-turvy." He made these observations to show that he did not acquiesce in what had been done.

The VICE-PRESIDENT said that a remark of his was omitted from the report also—viz., his having called the attention of the President to the fact that the record of the proceedings of the first committee meeting, at which the young man's case was dealt with, would have shown him that the case was settled on that occasion, and not held over.

Mr. WELLS said that he also had to complain of the report. An outsider would have thought that it had been "cooked." Mr. Hodgson endorsed the statement he made about the case and the strong reasons that he gave, but that did not appear in the report. The result was that they had the Editor of THE CHEMIST AND DRUGGIST saying that the Council had been discussing a fine point about a candidate, which looked as if they wanted something to do.

The PRESIDENT said he did not know what any of the three gentlemen who had spoken were referring to. He thought that as a general rule the reporter gave very fair reports; but if it was implied by the remarks now made that he (the President) had struck out from the manuscript anything that was reported, they made a great mistake. On the contrary, the only way in which he interfered with the report was by adding a small paragraph in order to make a sentence complete. There was not on this occasion, nor had there been since he became President, any "cooking" of the reports on his part. He would only ask the reporter in future to be careful to put down the exact words that these gentlemen used.

Mr. HODGSON said his feeling was that on all occasions on which the Council were not in committee everything that was said should be reported fully.

The REPORTER requested leave to explain. It would not be possible, except on very important debates, to report fully everything that was said. A certain amount of condensation was at times necessary. As to the words "hugger-mugger tricks," he admitted that he left them out of the report, considering them to be superfluous.

The PRESIDENT said it had not struck him that anything of importance had been omitted from the report.

The matter then dropped.

THE RECENT DECISION IN THE IRISH QUEEN'S BENCH DIVISION.

The PRESIDENT said he presumed most of them had seen the reports in the newspapers of the very important case that was decided in the Queen's Bench Division of the High Cour-

in the preceding week. It was a prosecution by Sergeant McGann, of John Kelly, of Templemore, for selling Mrs. Winslow's Syrup without being authorised to sell a medicine containing poison. The summons was brought under section 30 of the Pharmacy (Ireland) Act of 1875; but the Magistrates of Templemore took upon themselves to treat the case as coming under section 17 of the Amendment Act of 1890, which gave them a discretion to impose a lesser penalty than 5*l.*, and they fined the defendant 1*s.* The Queen's Bench Division held that the case came under section 30 of the principal Act, and that the Magistrates were bound to have inflicted a penalty of 5*l.* and no less, and sent the case back to them to do so. The decision was one of the most important that had been given since the passing of the original Act, as it showed that the Council had interpreted that Act rightly, and that if they brought prosecutions under section 30 of it against persons for selling poisons without being registered as chemists and druggists or pharmaceutical chemists, the Magistrates must fine the person convicted 5*l.* It was to be hoped that Magistrates would in future see what their duty was in such cases. The decision would be a caution to evil-doers, and he hoped that they would have fewer of such cases in future.

Mr. WELLS: It was the second time that those Magistrates acted in the same way. On a former occasion, in a case which was brought before them under section 30, they convicted the party, and yet fined him only 1*s.* Our solicitor recommended us to a watch for another case and we did so; and this time the Magistrates tried the dodge of amending the summons so as to bring it under section 17 of the Amendment Act.

THE SOCIETY'S CERTIFICATE IN MEDICAL EXAMINATIONS.

Professor TICHBORNE said he had to state a matter of importance to the Society, and which he was sure the members of the Council would be glad to hear. It would be in their recollection that some time ago he (Professor Tichborne) succeeded in having a resolution carried at the Board of the Apothecaries' Hall that persons registered as medical men who entered for examination under the Hall should be exempt from being examined in pharmacy if they held the licence of the Pharmaceutical Society. The Board of the Apothecaries' Hall had power to do that in connection with their examination for their own licence; but they had not power to do it in connection with the Conjoint examinations held under the College of Surgeons and their Board. But a case had recently cropped up in which a pharmaceutical chemist applied to be admitted to the Conjoint examination mentioned; and the representatives of the Apothecaries' Hall on the Conjoint Board had succeeded in getting that Board to accept the gentleman's certificate as a licentiate of the Pharmaceutical Society, with the result of exempting him from being examined in pharmacy. He (Professor Tichborne) trusted that this example would be followed by the College of Physicians.

Mr. WELLS: We are very much obliged to the Apothecaries' Hall for meeting us in the way in which they have done; and we should also express our thanks to Professor Tichborne for the way in which he has worked the matter up.

The PRESIDENT: I fully concur with you.

CORK CANDIDATES FOR THE REGISTERED DRUGGISTS' EXAMINATION.

The REGISTRAR read a letter from six gentlemen in Cork asking that the examination for registered druggists should be held there in June instead of July. The letter stated that five of the applicants were employed in the same establishment, and that it would be impossible for them all to be absent from it at the same time; and that they might not be able to attend the examination for which they had been preparing if it were held later in the year.

Mr. WELLS: We have power to examine them at any other time besides July.

Mr. GRINDLEY: Should they not pay the expense of the examiner?

Mr. BOYD: The examination should be advertised, and the effect of the advertisement might be to bring the number of candidates up to twelve.

Mr. HODGSON: Where is the necessity for anticipating the

examination by a month when we are conceding an examination to six candidates instead of twelve?

The PRESIDENT: I think it would be well to meet these gentlemen as far as we can. Their employer might not be able to let them attend an examination in July, holidays interfering.

After some further discussion, it was ordered that Mr. Sunner, who is the Society's member of Council in Cork, should be requested to make arrangements with the examiner to hold a special examination in Cork, and to see whether it would meet the general convenience of all the candidates to have it in July; and, if not, to make the time of examination suit the examiner and the candidates as best he could.

FOR THE LIBRARY.

A donation was received from the American Pharmaceutical Association of a copy of their Proceedings, 1892, Vol. 40, for which the thanks of the Council were voted.

EXAMINERS' REPORTS.

Reports were laid on the table from the examiners in the Pharmaceutical Preliminary and Licence examinations, and also the Pharmaceutical Assistants' and Registered Druggists' examinations, held in the month of April. The examiner in the Preliminary examination reported in favour of the passing of one gentleman, although in one subject he had not attained the prescribed standard.

The REGISTRAR mentioned that the gentleman passed in all the subjects except weights and measures.

The PRESIDENT said the candidate's total was 55 per cent., the highest total attained in the examination being 58 per cent.

On the motion of Mr. WELLS, seconded by the VICE-PRESIDENT, the examiner's decision as to the candidate was approved of.

Upon the report of the examiners for the licence it appeared that eight candidates passed and three were rejected. The examiners stated that they passed two gentlemen after consultation.

The PRESIDENT read the marks obtained by the candidates in question, which in one case amounted to 190 $\frac{1}{2}$, and in the other to 168, out of a maximum of 300.

The examiner who held the examination for registered druggists in Belfast reported that all the candidates passed, and that they exhibited an exceptionally high standard of attainments.

Some other business having been disposed of, the Council adjourned.

The Winter Session.

CHEMISTS' ASSISTANTS' ASSOCIATION.

THE sixteenth annual general meeting of the Association was held on May 4, at 9 P.M., the President (Mr. F. A. Rogers) in the chair.

The first business was the announcement that the Association's medal and the prize of five guineas for the best original paper published during the year had been awarded to Mr. E. H. Gane, of the School of Pharmacy, for his paper on "Fiji Ginger." The Essay Prize was not awarded.

The SECRETARY then read the

ANNUAL REPORT,

which stated that the Association now numbers 163 members and 46 patrons. Of these 50 had been enrolled during the present session. The attendance had been well maintained, the largest having been on the occasion of Dr. Lauder Brunton's paper. Sixteen evenings had been devoted to the reading of papers, three of which had been filled by short papers. Two other evenings had been set apart for discussions. The contributions numbered 26, of which 21 were by members. The discussions dealt with the hours of labour in pharmacy, opened by Mr. Peter MacEwan, and with the poisons regulations, opened by the President. In accordance with a resolution passed at the former of these discussions, the Council had endeavoured to secure the co-operation of provincial associations, and had formulated a

plan of procedure. The conversazione held at the Portman Rooms on November 17, 1892, was more largely attended than before, and the annual dinner, on March 9, 1893, at the Café Monico, under the chairmanship of Mr. Stacey, proved very successful. As the outcome of the sale of programmes at the social evenings for a portion of the session the Financial Secretary had forwarded 1*l.* 10*s.* to the Benevolent Fund of the Pharmaceutical Society.

The report was adopted, as was also the balance-sheet, which was as follows:—

Balance-sheet.		
Receipts.	Expenditure.	
Balance in hand .. 37 3 8 <i>½</i>	Printing Proceedings .. 29 18 6	
Grant from Publishing Fund 20 0 0	Rent 26 0 0	
Subscriptions:— 163 members 40 15 0	Stationery and printing .. 12 8 5 <i>½</i>	
46 patrons 24 3 0	Printed postcards .. 4 16 6	
Balance from dinner 3 4 4	Stamps 5 18 7	
Publication of Reports .. 3 2 6	Refreshments 9 12 3	
Sale of Proceedings 0 2 6	Conversazione 17 4 4	
Advertisements 2 17 0	Grant to Publishing Fund 20 0 0	
Rent of piano 5 0 0	Expenses of social even- ings 0 16 1	
Donations:— Allen & Hanburys 1 1 0	Piano-tuning 0 7 6	
Barclay & Sons 1 1 0	Medal 0 18 0	
Barron, Harveys & Co. .. 1 1 0	Sundries 0 9 6	
C. A. M. W. A. L. 1 1 0		
Chemists' Association .. 0 10 0		
Corbyn, Stacey & Co. .. 2 2 0		
Davy, Yates & Rout- ledge 1 1 0		
Evans, Lescher & Webb .. 1 1 0		
Hearon, Squire & Francis .. 1 1 0		
Hill & Sons 1 1 0		
Hodgkinsons, Treacher & Clarke 1 1 0		
Idris & Co. 1 1 0		
Ingram & Royle 1 1 0		
Maw, Son & Thompson .. 1 1 0		
Meggesson & Co. 1 1 0		
Morson & Co. 1 1 0		
Sanger & Sons 1 1 0		
Savory & Moore 2 2 0		
Silverlock 1 1 0		
Smith & Co. 1 1 0		
Toogood 1 1 0		
Wright, Layman & Umney 1 1 0		
Balance 32 11 4		
161 1 0 <i>½</i>		
		161 1 0 <i>½</i>

A ballot for the election of the new Council was next taken, with the following result. Number of voting-papers received, 64.

Mr. F. A. Rogers 62	Mr. H. N. Robbins 54
" E. F. Harrison 62	" T. A. Ellwood 49
" C. E. Sage 61	" R. N. Jones 49
" J. C. Stead 59	" H. A. Jowett 45
" W. A. Morris 58	" E. H. Gane 42
" J. C. Strother 58	" C. Morley 42
" E. J. Parry 57	" G. Roe 41

The above form the Council. The unsuccessful candidates were:—

Mr. H. B. Care 39	Mr. N. A. Robinson 26
" A. H. McConnell 31	" E. E. Bennett 3

A valedictory address from the President, and a vote of thanks to him, brought the business of the session to a close.

CAMBRIDGE PHARMACEUTICAL ASSOCIATION.

THE first annual meeting of this Association was held on May 4, Mr. A. Deck in the chair. The Hon. Secretary, Mr. Peck, read the annual report, from which it appeared that there are fifty members, and there has been an average attendance of twenty-five at the meetings. Mr. Deck was re-elected President, Messrs. Ivatt and Welborne Vice-Presidents, Mr. Addison Hon. Treasurer, and Mr. Peck Hon. Secretary.

CHEMICAL SOCIETY.

THE Chemical Society had two meetings last week, both of them being very interesting indeed. First came the ordinary meeting on Thursday night, with a ballot for the

ELECTION OF FELLOWS,

which always brings a good attendance. When Professor Thomson, the senior honorary secretary, had read the names of the persons to be balloted on, Mr. C. E. Cassal asked Dr. Armstrong, the President, what was to be his ruling in regard to the reading of certificates. The President's reply was firm and popular. It settled three points: first, that the by-laws require certificates to be read three times, but fifty years' custom has sanctioned the course of reading the whole of the certificates once and the names of candidates on the second and third times; second, the plan adopted on several occasions during the past few years (mainly on the initiative of Mr. Cassal) of reading a few selected certificates on the evening of the ballot is a bad one, being ungentlemanly, and there is now sufficient publication of the qualifications of candidates; third, Fellows may discuss such qualifications as much as they like in a private way. The sympathy of the meeting was so much in favour of this ruling that Mr. Cassal bowed to it without protest. The ballot was then taken, Mr. Millard and Mr. Chapman acting as scrutineers.

HYDRATES OF ALKALINE HYDROXIDES.

Mr. Spencer Pickering communicated a paper on this subject, dealing, in his verbal *résumé*, chiefly with the hydrates of sodium hydroxide (NaOH). By freezing aqueous solutions of various strengths Mr. Pickering obtained six hydrates, and probably seven. They all differ from each other in crystalline form and melting-point. It was found that a particular hydrate always tends to crystallise out at a definite point, and if some of the crystals be obtained they can be used as a nidus for crops of crystals having the same composition. The following were the hydrates obtained and the strengths of solutions yielding them:—

1. $\text{NaOH} \cdot \text{H}_2\text{O}$	from	70	per cent. NaOH solution
2. $\text{NaOH} \cdot 2\text{H}_2\text{O}$	"	50-60	" "
3. $\text{NaOH} \cdot 3\text{H}_2\text{O}$	"	37-45	" "
4. $\text{NaOH} \cdot 3\frac{1}{2}\text{H}_2\text{O}$	—	—	—
5. $\text{NaOH} \cdot 4\text{H}_2\text{O}$	"	28-38	" "
6. $\text{NaOH} \cdot 5\text{H}_2\text{O}$	"	20-30	" "
7. $\text{NaOH} \cdot 7\text{H}_2\text{O}$	"	15-30	" "

The percentages are approximately those represented by Mr. Pickering's curves. The curves run into each other, thus showing that more than one hydrate exists in solution at the same time. The fourth one of the series is probably a mixture of the tri- and tetra-hydrates. This one, and the mono-hydrate (first mentioned by Dunstan) are the only hydrates which have been known; the rest are new. Of course some of the hydrates do not exist as crystals at the ordinary temperature. There are two forms of the tetrahydrate, one melting at $+7^\circ$ and the other at -2°C .

The only hydrate of KHO hitherto known is $\text{KHO} \cdot 2\text{H}_2\text{O}$. Mr. Pickering has obtained $\text{KHO} \cdot \text{H}_2\text{O}$ and $\text{KHO} \cdot 4\text{H}_2\text{O}$.

The next papers were on

ARSENIC-TESTING

by Dr. Clark, of Glasgow. The first one was on Fleitmann's test, which detects arsenious acid, arsenic trisulphide, &c., but not arsenic acid. Various suggestions have been made, particularly by Gatehouse and Johnston, for overcoming this weakness, and the investigators named found that when the material containing the arsenic acid is hoiled with aluminium (instead of zinc) and caustic potash, arseniuretted hydrogen is obtained, judging by the black stain imparted to silver-nitrate paper. Dr. Clark finds this to be a mistake. The stain on the paper is phosphide of silver, due to the presence of phosphorus in the aluminium. By no action whatsoever has he been able to get arseniuretted hydrogen from arsenic acid.

The second note was on Marsh's and Reinsch's tests. The author considers that the latter is the better one, especially for medico-legal work, as minute traces of arsenic

can by it be determined quantitatively. His process of working is to acidify the material containing the arsenic with hydrochloric acid, and boil a strip of bright copper foil in the mixture. Repeat with more copper until a black stain is no longer given. The foil is then washed with alcohol, &c., to free it from fat, next boiled with soda-solution, filtered from precipitated copper, the filtrate acidified, sulphuretted, and by distillation with ferrie chloride, according to the author's method, the arsenic is separated from antimony if present, and may be weighed as As_2S_3 , or estimated colorimetrically if less than a milligramme be present.

Mr. Friswell in the course of the discussion said that the extreme difficulty of reducing arsenic acid is noticed in colour-making. He has occasion to use tons of the acid, and never in his experience has there been any evolution of arseniuretted hydrogen from dilute acid solutions in presence of metals. He added that the oxidising action of arsenic acid is only exerted in colour-making when the boiling-point of the aniline is nearly reached.

Dr. Bernard Dyer related an experience of his own which showed that zinc in rods has the property of masking the presence of arsenic when testing by Marsh's method. Granulated zinc (arsenic-free) has not this property. The meeting was apparently much surprised at this statement, but Dr. Dyer's evidence appeared to be extremely conclusive, and the President thanked him for it.

PRESERVING URINE.

In the next communication, which was by Dr. A. Richardson, on the formation of hydrogen peroxide in organic liquids, it was stated that if urine be exposed to light and oxygen in clear glass bottles, it will keep good for periods varying up to forty-five days. The author tested such urines, and found in all cases that peroxide of hydrogen was present. This was proved by shaking out with ether (free from H_2O_2) and testing with titanic oxide or potassium iodide. When the urine begins to decompose, as shown by fungoid growth, the peroxide disappears. The peroxide is not formed in solutions of urea or of uric acid, and removal of the colouring-matter from the urine, or sterilisation, does not prevent the change. The communication was illustrated by experiments, and it gave rise to a rather lively discussion. Mr. T. S. Dymond quickly essayed to break a lance with Dr. Richardson, but he was disposed of very summarily by the doctor. Professor Dunstan next made for the joints in the Richardsonian armour, suggesting that the problem which the paper attempted to solve was a haeteriological one as well as a chemical, and that the liquid was preserved, not because hydrogen peroxide was produced, but because the light killed the germs. That is Professor Marshall Ward's experience. Dr. Richardson, in his deep drum-major voice, responded that he had looked at the stuff with his eyes, not with a microscope; he was a chemist, and knew when he got hydrogen peroxide. There was an end of the matter, but the investigation was still going on. The President and Mr. C. E. Groves rather favoured Professor Dunstan's view of the case, and pressed it upon Dr. Richardson. Here it stands for the present. The urine used was normal human urine free from sugar.

WHITE-LEAD

was the next subject, treated in a paper read by Mr. J. B. Hannay, of Glasgow, with whom Mr. A. E. Leighton was associated. Text-books say that when white-lead is mixed with linseed oil saponification takes place. The investigators show that this is a mistake, chemically speaking; in fact, the error has arisen from the workmen being told to make white-lead of a soapy consistence, and that expression has crept into text-books. Incidentally the authors gave some interesting details as to the analysis of white-lead. The oil is best dissolved out with ordinary methylated ether in the proportion of 100 c.c. to 5 grammes of the lead. The powder quickly separates from the mixture, and the liquid filters bright.

Messrs. Harland, Blount, and Reid questioned the correctness of some of Mr. Hannay's conclusions, and the President wondered why the paper was brought forward at all. Mr. Hannay having replied, the result of the ballot was announced, and the meeting adjourned.

HOFMANN MEMORIAL MEETING.

Friday was the anniversary of the death of August Wilhelm von Hofmann, and in his memory Lord Playfair, Sir F. A. Abel, and Dr. W. H. Perkin delivered addresses. A rather brilliant audience assembled in the lecture-theatre, and on taking the chair Dr. Armstrong referred in feeling terms to the loss to science by the death of Hofmann.

LORD PLAYFAIR

spoke first, and, unlike those who followed him, did not read his notes. It was a wonderfully good speech, both in manner and matter, and was confined to the subjects Hofmann as a student, and the position of chemistry in England when Hofmann took up residence here. Lyon Playfair was a student under Liebig at Giessen when Hofmann was studying philology and law there. Hofmann thought of being a lawyer, but made little progress except in languages. He was an accomplished linguist, and personally a pleasant, jolly, good fellow, fond of the company of the chemical students. It was after Playfair left Giessen that Liebig took young Hofmann in hand, at his father's request, to see if he could make anything of him.

Speaking of the condition of chemistry in England between 1840 and 1852, Lord Playfair first reminded his hearers that though we have not been great as teachers, the past two centuries show that England has produced amongst the greatest discoverers in chemistry. In the eighteenth century there were Priestley, Black, Cavendish and Wedgewood, and connecting that century with this, Dalton, the man who had done for atomic masses what Newton did for the heavenly bodies. "I knew him well," said Lord Playfair. One can imagine how keenly the audience followed the speaker when that sentence caught their ears. After returning from Giessen Playfair went to Manchester to lecture on organic chemistry. Dalton was one of his students. He came there an old and worn man, bright-eyed, dignified, closely resembling Newton; he came leaning on the arm of the faithful Dr. Joule, to hear the Scotch lecturer speak of the dawn of the new branch of chemistry which was then exciting attention.

After Dalton in our own century came Davy, Faraday, and Graham—"my master," as the speaker fondly called him. Playfair had been Graham's laboratory assistant in Glasgow. Graham was the first man to give practical instruction in chemistry in this country, and he came to the London University to start the system. It was quickly taken up by others. Graham was a splendid teacher, but a bad lecturer. "Why," said Lord Playfair, "when all the students came into the lecture-theatre we used to lock the doors to prevent them going out before the lecture was over. It was really dreadful." But the speaker most warmly referred to Graham, especially noting that it was he who advised him to go to Giessen. Chemistry was still only taught in England in its application to medicine, &c.: pure chemistry scarcely existed. At this point Liebig's "Chemistry in its Application to Agriculture and Physiology" appeared—viz., in 1842. It excited intense interest. Landlords and farmers took it up; chemistry became fashionable, and when Liebig visited this country shortly afterwards, he made quite a triumphal tour—"a personally conducted tour, although there was no Cook then." Dean Buckland conducted, and "a young man called Lyon Playfair" acted as interpreter. Before this it was impossible to get people to take much interest in chemistry; after it the fashionable craze paved the way for the foundation of the School of Practical Chemistry, and the final arrangements for that end were due to Sir James Clark, the Queen's physician, and the Prince Consort.

Lord Playfair said a good deal about the enthusiasm which Liebig's book had created for scientific agriculture—how at one course of lectures amongst the students were one duke, one marquis, and two members of Parliament. But the bane of chemistry was that everybody wanted to study it for a special purpose. He recalled, for example, the case of a Turk who paid him his fees, stipulating that he should only be taught chemistry in its relation to the theories of Paracelsus. It was not possible to get students to go in for pure chemistry until the wave of enthusiasm provided the means to found Hofmann's school. Of the immediate effects of that, and of Hofmann as a teacher, an enthusiast in research, and as his (Lord Playfair's) successor at the School of Mines, when the School of Practical Chemistry was closed for lack of funds,

Lord Playfair spoke adequately, deplored that with the closing of the school a brilliant prospect had closed for England—a prospect of chemistry being pursued for its own sake. But he had the hope that the man and the means would still be found, probably under the new University for London, for taking up the work where Hofmann had left off. They would come in proper time just as a Lawes and a Gilbert came together in their season.

SIR FREDERICK ABEL

then took Lord Playfair's position on the platform. He spoke as one of Hofmann's first pupils and assistants in England. Sir Frederick's father was desirous of training him in pure chemistry, contrary to the advice of Mr. Warington, of the Apothecaries' Hall, and for that purpose he became a student at the Royal Institution, where Brande's three-volume manual and Andrew Parnell's "Analysis" were the textbooks. When he had waded through these he was sent forth a certificated but dissatisfied young man, ready to take advantage of any further training which might be available; but there was none. He hailed the proposal to found a school of practical chemistry with delight, and enrolled himself as a student to await the coming of school and master.

But this was not the first proposal of the kind. Mr. Lloyd Bullock—"an old pupil of Liebig's, a worthy friend of mine," said the speaker—had called his attention to a prospectus for such a school which Mr. Bullock and Dr. John Gardner, the translator of Liebig's "Familiar Letters," had drawn up and laid before the Royal Institution managers. This was in 1842. The proposal was to start such a school, with a technical laboratory, in the institution buildings, but it could not be carried out, the space available in the building being inadequate.

Sir Frederick referred to the early difficulties of Hofmann's school in its home at George Street, Hanover Square. It was already established before Hofmann came over, and both Fresenius and Will had refused the directorship. Amongst the first year's pupils at the school were George Merck, of Darmstadt; Nicholson, a clever young druggist from Bullock's, and the lamented Mansfield. There were less than 20 students the first year, but in the second year 63 attended. Young Abel was very soon appointed a laboratory assistant, and afterwards principal assistant, in which capacity he had to do with Hofmann's researches. These had relation to aniline derivatives, and as all the aniline had to be made from indigo they were of the most laborious nature. The hours were from 9 to 5. Abel walked from the Borough in the morning, and often came back at night to continue work. It was hard work; salary 40*l.* a year, supplemented by private teaching at 3*s.* to 5*s.* an hour, and some literary work. It was then (1852-56) that the speaker first made gun-cotton, and that he made it carefully he proved by producing a small bottleful of it. Sir Frederick went on to speak of Hofmann's great influence upon his pupils—how ardent most of them became in research, and how many of them afterwards became famous. His gifts as a lecturer were dwelt on, also his attachment to England, and the terms of respect with which our Royal Family speak of him—in which connection he read Hofmann's letter to the Prince of Wales acknowledging the receipt of the Albert medal.

DR. W. H. PERKIN

explained in commencing his speech, that he had been requested to make it autobiographical, which, doubtless, explains why those who spoke before him took this line. Dr. Perkin's speech referred to the discoveries of coal-tar colours as influenced by Hofmann. As to Dr. Perkin's career, he imbibed a taste for chemistry at the City of London School, where the teacher was an old Hofmann pupil. At the age of fifteen, he entered Hofmann's school, and, after going through the usual qualitative and quantitative course of work, he was asked by Hofmann to undertake a research on anthracene. After that he was appointed one of Hofmann's assistants, and took a share in his researches on the synthesis of quinine. Young Perkin had fitted up a laboratory at home, and here in 1856, when he was 17 years old, he discovered mauve. That discovery led to his leaving Hofmann's laboratory, much to Hofmann's disgust, and starting a factory along with his father (a builder) and brother

for the manufacture of the colour. Dr. Perkin spoke of his early difficulties, but traced as fully the development of the coal-tar industry, showing how Hofmann was either directly connected with it or that his old pupils had developed their work under him into commercial ventures.

On the motion of Dr. Gladstone, seconded by Dr. Russell, the speakers were thanked for their addresses.

Personalities.

DR. A. P. LUFF has been appointed an examiner in forensic medicine to the University of London.

MR. JAMES OSBORNE, chemist, has been unanimously elected Chairman of the Ashbourne Local Board.

MR. GILMOUR, who represented Johnson & Johnson in Great Britain for some time, is now representing the firm in Canada.

PROFESSOR J. R. GREEN, of the School of Pharmacy, has been appointed an examiner in botany to the University of London.

SIR FREDERICK ABEL, as Secretary of the Imperial Institute, goes up one step higher, from knighthood to baronetcy.

AT the St. Luke's Vestry Elections on Tuesday, Mr. Geo Eade, pharmacist, of Goswell Road, was re-elected without opposition.

MISS BATTENSLY has been appointed dispenser to the Shaw Street Hospital, one of the largest institutions of the kind in Liverpool.

MR. LIONEL NEWBERRY (of the firm of Francis Newberry & Sons) sailed on Saturday last from Liverpool for a flying visit to New York, Philadelphia, Chicago, &c.

MAJOR STORRAR, of Kirkealdy, the Pharmaceutical Councillor, has just been granted the honorary rank of lieutenant-colonel in the 1st Fifeshire Artillery Volunteers.

MR. ROBERT GREEN, chemist, of Harc Street, Woolwich, was on Tuesday re-elected by the Woolwich Local Board of Health Chairman of the Sanitary Committee for the ensuing year.

MR. R. H. DAVIES, analyst to the Hammersmith Vestry, has been granted leave of absence for six months, on account of ill-health. During Mr. Davies's absence the duties will be performed by Mr. Chattaway.

THE St. Saviour's (Southwark) Board of Guardians have decided to employ Mr. John F. Dunstan as dispenser at the infirmary at a salary of 120*l.* per annum, to include dinner daily, subject to the sanction of the Local Government Board.

MR. JOHN C. HEWLETT (Messrs. C. J. Hewlett & Son, wholesale druggists) expects to leave England on May 20 for New York and Chicago, to represent his firm at the World's Fair, and to make a business tour through the United States. He may be addressed to the care of his agents, Messrs. Dillon & Co., 20 Cedar Street, New York.

UNDER the title of the "Yorkshire Pompeii," Mr. W. T. Swain, pharmaceutical chemist, Boroughbridge, has prepared an interesting illustrated account of the ancient little towns of Boroughbridge and Aldborough, the latter being the modern representative of the Roman city of Isurium, and possessing many relics of its ancient importance.

AMONGST the fifteen persons selected by the Royal Society for the election at the anniversary meeting on June 1 are Professor Wyndham R. Dunstan, M.A.; Professor W. T. Gairdner, of Glasgow; Professor J. W. H. Trail, of Aberdeen; and Professor Sydney Young, of Bristol. Mr. Dunstan's qualifications are stated in the following terms:—

Professor of Chemistry to, and Director of the Research Laboratory of, the Pharmaceutical Society of Great Britain. Lecturer on Chemistry in the Medical School, St. Thomas's Hospital. Author of numerous papers on Chemistry and Chemical Pharmacology—*e.g.*, "The Action of Alkalies on the Nitroparaffins"; "The Physiological Action of the Paraffinic Nitrates" (Proc. Roy. Soc., 1891—the first of a series of papers in conjunction with Professor Cash, F.R.S.); "Contributions to our Knowledge of the Aconit

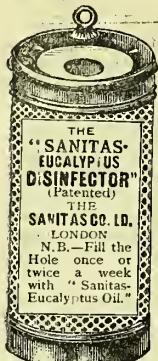
Alkaloids"; "The Occurrence of Skatole in the Vegetable Kingdom"; "The Constituents of the Artificial Salicylic Acid of Commerce and a Method of Producing the Pure Acid for Medicinal Use." Distinguished as an investigator, and for the interest which he has taken in educational questions.

MR. AND MRS. JOSEPH T. PRESTON (of the firm of Thos. Hodgkinson, Prestons & King, wholesale druggists, 81 Bishops-gate Street Without) celebrated their golden wedding on Wednesday, May 10. On Tuesday, in anticipation of this event, the staff of the drug-house named presented to their honoured chief a handsomely-designed illuminated address on vellum, expressing their congratulations in the following terms:—

We, the undermentioned employés of Messrs. Thomas Hodgkinson, Prestons & King, desire to offer our sincere and heartfelt congratulations to Mr. and Mrs. Joseph Thomas Preston on the occasion of the fiftieth anniversary of their wedding-day, being their golden wedding, and hope that the same good health and felicity they have so long enjoyed in the past may still continue with them in the future. May 10, 1843—May 10, 1893.

A gold and ivory Malacca walking-stick accompanied the address, and this, too, bore a suitable inscription. The presentations were made by Mr. Brand, the head warehouseman, and by Mr. Bentley, head of the drug-floor, who has been in the service of the firm for upwards of forty years. In acknowledging the gifts Mr. Preston said it was given to but few men and women to live a married life together of fifty years. Many changes had taken place during that time; the business of the firm had grown, and they had moved with the times. Large fortunes were not made in the drug-trade. He had had struggles and responsibilities like other business men, which by industry and perseverance he had surmounted. He thanked them all, and hoped that their happy relations would continue.

WE have already mentioned that the Australian cricket team of 1893, which is now exciting the interest of all lovers of the game in this country, includes a gentleman whose feats will be watched with particular interest by pharmaceutical cricketers. Mr. Arthur Coningham is, we believe, the first pharmacist who has visited us as an Australian cricketer. The Queenslanders also claim him as their first representative in a team sent to England, and are justly proud of him. Mr. Coningham's reputation, gained in connection with the Stanley Cricket Club, Brisbane, reached headquarters, and he was asked to play in the trial matches. Unfortunately, when they came off he was suffering from a painful attack of rheumatism, and his form was judged under adverse circumstances. The team was already chosen for England when the New South Wales *v.* Victoria match was played, and it was Mr. Coningham's bowling in that match which secured for him a specially-made place, and enabled him, as he told a representative of THE CHEMIST AND DRUGGIST last week, to realise the ambition of his boyhood by visiting England. Born at South Melbourne, Victoria, twenty-seven years ago, Mr. Coningham served his apprenticeship with Messrs. Rocke, Tompsett & Co. Subsequently he held the post of dispenser at the Prince Alfred Hospital, Sydney, New South Wales. Eight years ago he went to Brisbane, with no intention of staying any length of time, but finding a suitable berth with Messrs. Prosser, Taylor & Co., wholesale druggists, in that city, he has remained with them ever since, only giving up his position to come to England. In the course of the tour he hopes, he says, to find time to visit some of the well-known wholesale houses and pharmacies with whose names alone he has been familiar in his distant home. Mr. Coningham is of medium height, strong build, with fair complexion and blue eyes, and a pleasant straightforward way of speaking. He is a strong batsman and an exceedingly difficult left-arm bowler. He has already given a taste of his quality in the match against Lord Sheffield's eleven this week, where, on anything but a bowler's wicket, he, in the first innings, got rid of five of our foremost bats for an average of a little less than 15 runs apiece; and his performance with the bat in both innings of the colonial team was one of the features of the match. Mr. Coningham has two brothers in the business in Australia. One is established in Queensland, and the other in Victoria. It need hardly be added that in the local matches between the wholesale and retail members of the trade in Brisbane it was always a condition to "bar Coningham."



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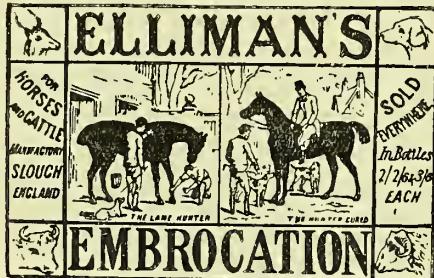
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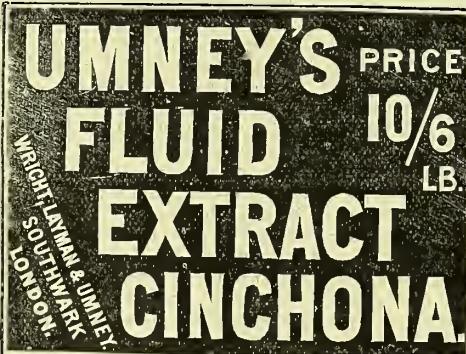
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THE PHARMACEUTICAL REPORT.

THE skilful writer to whom we are indebted for the interesting review of the position of the Pharmaceutical Society

which was issued last week as the annual report of the Council of that body seems to have been unable to decide whether to adopt a despondent or a jubilant tone. The financial statement, he declares, "discloses no serious ground for anticipating that the progress made by the Society during the past two years will not be maintained." A cautious sort of diagnosis, but, to adopt the reporter's style, not unhopeful. But he at once feels that in this sentence too high a note has been pitched, and we are transferred promptly to the minor key with a melancholy reference to the "lamentably small" proportion of registered persons who co-operate within the Society to realise their common aspirations, and the assurance that little or no real advance can be made unless a great many more guineas come in.

But up go the gentleman's spirits again as he contemplates the improvement in the balance-sheet. Income has considerably exceeded expenditure, and invitations to *conversazioni* may yet again be heard in the land. This glow of comfort is the result of the increased fees now charged to Minor candidates. These increased fees have saved the Society from the gloomy consequences of their reckless expenditure in Pied Bull Yard and elsewhere. Examining is now a gloriously profitable business. In 1892 fees to the amount of 2,718*l.* were paid into the Society's money-box by 1,519 candidates for the first examination, the actual costs of which (exclusive of office expenses) reached almost exactly 500*l.* Lumping Major, Minor, and Modified men together, we find an income of 5,368*l.* yielded by fees, and an expenditure of 2,523*l.* It is a curious fact that with an advance of 2*l.* 2*s.* on the fee of each Minor candidate the average cost of examining him has dropped considerably. As far as fees to examiners are concerned, each candidate cost about 29*s.* in 1891, and only about 23*s.* 6*d.* in 1892. That the examination is more efficiently conducted now than formerly may be assumed from the fact that while in 1891 the cost of apparatus and chemicals averaged about 2*s.* per candidate, it went up to 10*s.* per man in 1892.

After reviewing with honest pride the benefits conferred on the members by the library and museums, the reporter remarks somewhat ambiguously that "the papers read at the evening meetings of the Society in London and Edinburgh have been as important to pharmacists as those in former years." This may or may not have been a very high standard.

Passing over some official paragraphs, we come to those relating to the important question of the "sale by unregistered persons of proprietary preparations containing scheduled poisons." There is nothing more satisfactory in the whole of the report than the fact that the Council does now recognise this as an important question. The enforcement of the provisions of the Pharmacy Act in reference to the sale of poisons has never been made so prominent a feature of the year's pharmaceutical history as on this occasion. The Pharmacy Act of 1868 had been to some extent despised for nearly a quarter of a century. The year when it becomes the painful duty of the chronicler to record the death of its principal promoter is the epoch when its capacities are beginning to be understood. "The honoured name of George Webb Sandford," which figures at the head of the losses which are recorded in the report, is rightly treated with profound esteem; and it is quite truly stated that "the value of his labours on behalf of the Society and for the whole body of chemists and druggists throughout Great Britain is now beginning to be realised." No one welcomes more heartily than ourselves this tardy conversion of the governing body of the Pharmaceutical Society. That body can render great services to the

trade by simply adopting as its own the views which induced the Legislature to pass the Pharmacy Act. By recognising, as we have often urged should be done, the principle that the business in poisons is the corner-stone of pharmacy, the Pharmaceutical Council has begun to secure for the trade a distinctive position and substantial rights. We are told that during the year some 600 cases of infringement of the Pharmacy Act have been reported to the Registrar, and have been carefully considered. We should have been glad to know more about the action taken on these, and perhaps more details will be vouchsafed when the report comes to be discussed. Curiously, no indication of the penalties paid is given in the financial statement; there we only discover that the lawyers' account shows a balance of 131*l.* on the expenditure side. So far, therefore, all that the 600 cases prove is that there is a considerable field for energy. If the Council will only cultivate it with spirit we will be found in the front rank of its supporters.

THE WINTER SESSION.

THANKS to the marvellous weather, our winter session of pharmaceutical meetings has this year extended far into the summer. A few of the societies, too, have held out to an unusually late date. But the May meetings of the parent society finally extinguish their activity, and from now to the period of conferences we obtain a spell of respite from pharmaceutical energy.

The winter began with about three dozen associations and societies of chemists and their assistants throughout the United Kingdom, and it ends with only one sure death—the Newcastle Assistants' Association; but the junior association in Dundee is in a critical condition. In both cases want of funds chiefly, and waning interest partly, are the causes of dissolution. We have a set-off in several births, and unusually vigorous action on the part of old societies. Cambridge has produced a young body which appears at present to have ample sustenance well peptonised; a trade association has been born in Edinburgh, and has given evidence of its purpose in life by interviewing a legislative lord; and Glasgow has eclipsed even that performance by developing itself from a junior society into one covering not only the second city of the Empire, but the whole of the west of Scotland. It has, indeed, been a winter of no small things. We may include the premier societies in our beatific comment. The Pharmaceutical Society of Ireland has held several scientific meetings, being the first for many years, and although the subjects of its lectures were more general than original, the meetings have been decidedly popular with the members, and encourage the hope that more Irish pharmacists will practically support them next winter. The Pharmaceutical Society of Great Britain has caught the spirit of the times by embarking upon a lantern mission for the education of its London members. That is the nicest thing we can say of the series of meetings which ended in April. The Bloomsbury session began with Mr. Carteighe, in October, celebrating the jubilee of the School; he continued on the sale of poisons to medical men in November; and at the four succeeding meetings Messrs. E. M. Holmes, P. W. Squire, W. R. Dunstan, and J. R. Green gave lectures which were illustrated with the magic-lantern. This has been the method in the course, but what its purpose may be we cannot tell. It were better that the Society should foster such communications as its Scotch branch has succeeded in getting during the year. At five meetings the branch has got together seventeen papers, not one of which was unworthy of the Pharmaceutical Society.

We must regard the North British Branch as the most active pharmaceutical body in the kingdom from the evening-meeting point of view, and alongside it in activity we may place the Birmingham and Manchester Associations and the Brighton, Liverpool, Edinburgh, and London Assistants' Associations. The Sheffield Society has not been so active lately.

The work which all these and a few other societies have carried out for themselves may be divided into three sections—viz. (1) festive and social, (2) pharmaceutico-legal, and (3) scientific. It is astonishing how the festive spirit is growing in the trade. Brighton, Birmingham, Edinburgh, Newcastle, and London have their balls in season, and smoking-concerts, suppers, and annual dinners mark the path of progress from October to May. Glasgow, Liverpool, and Manchester have indulged in smoking-concerts during the session, and in nearly every town where there is an association chemists have met together on a social footing. We have long urged this as one of the greatest needs of the trade. The scientific side of pharmacy is in no danger of extinction, since pharmacists have the opportunity in this and similar journals of laying new discoveries before a larger audience than they can get in their own towns. But if the pharmaceutical life is to be made worth living in Briskville or Dulltown, the men in business there should shake hands over the mahogany now and then. There is now a growing tendency that way.

An exceptionally rich legal winter has given associations plenty of poison pabulum. From the President of the Pharmaceutical Society downwards the sale of poisons, under special and general conditions, has been discussed. The instruction afforded has not been commensurate with the energy expended. The half-crown book ("Pharmacy and Poison Laws of the United Kingdom") which we published at the beginning of the winter covers all the ground traversed by the speakers, and, we suspect, inspired most of the speeches. The only other subject of moment in this section was started by Mr. Charles Thompson in his presidential address to the Midland Association. Mr. Thompson is a strong advocate for territorial representation on the Pharmaceutical Council, and he has some backers in the provinces, but none in high places, so the agitation has so far proved abortive. Disciples of the Pharmaceutical Society have, by the way, been exceptionally brisk in advocating its claims, and we have in consequence given the Society some dozens of pages of free advertisements since October.

The scientific work done has been above the average. The Edinburgh, Liverpool, and London junior associations especially have produced amongst themselves many valuable notes on practical subjects which we have been glad to publish, although the exigencies of space often necessitated considerable pruning on our part. The North British Branch has the credit of giving to the world, amongst other important papers, one on the discovery of xanthaline—an opium alkaloid—and a solution of the Easton's syrup problem, the latter being traced to the presence of an excess of phosphoric acid in the syrup, causing the crystallisation of the quinine. At Birmingham, Mr. John Barclay has dealt with standardised belladonna preparations, much in the same way as other alkaloidal preparations have already been treated, and Mr. Cripps has also investigated several potent extracts. The chemistry of the aconite bases, and several other high-class pharmaceutical subjects have been discussed by Professor Dunstan and his colleagues before the Chemical Society, and Mr. Robert Warington has gone very thoroughly into the question of plumbiferous citric and tartaric acids, showing not only how to free them from lead,

but how the acids should be tested. These are but a few of the many subjects which have been brought under notice through associations, and although it would be a mistake to keep pharmaceutical associations alive for that purpose alone, the work accomplished is creditable to them, and hopeful for the future of British pharmacy.

THE LANOLIN LAWSUIT IN GERMANY.

At the instance of Benno Jaffé & Darmstädter in Berlin, the proprietors of lanolin, the Court of Hanover has granted an injunction restraining the Norddeutsche Wollkämmerei (wool-carding works), in Delmenhorst, near Bremen, from publishing or causing to be published, upon pain of a penalty of 50m. for each offence, any statement that by the mixing of the defendants' adeps lanæ with water, with or without the addition of other materials no lanolin is produced, or that such a mixture does not infringe the patent rights of the firm of Benno Jaffé & Darmstädter, and further restraining them from making any statements, either directly or through intermediaries, which may induce others to mix their adeps lanæ with water, either with or without the addition of other materials, or closely to incorporate water, either simply or with other materials, with adeps lanæ. The Wollkämmerei, which has thus been defeated at law in the first instance, has for some months been carrying on a duel with the lanolin proprietors in the columns of the German pharmaceutical press. The statements of the defendant company were mostly to the effect that the German law allowed the mixing of adeps lanæ with aqueous solutions of a medicinal character, or of adeps lanæ with simple water in conjunction with any other fatty substance. The Wollkämmerei owns large sheep-runs in Argentina, and has long manufactured, as a by-product in connection with the purification of wool, the adeps lanæ which it has sought to place upon the market in competition with lanolin.

THE HALF-PRICE CLOSED-LETTER COMPANY.

Several correspondents write to us for advice in respect to a proposal which has lately been made to them by our old acquaintances "The Half-priced Closed-letter Company (Limited)." This enterprise has not so far been a success. The promoters have given plausible reasons in explanation of the failure of their scheme, but a number of chemists who took "mortgage debentures" in the concern seem to find it difficult to realise that in so doing they became participants in the speculation. Some of these, with a complimentary but unjustifiable faith in ourselves, have asked us how they are to get their money back again. We took a good deal of trouble sometime since in having the documents examined by a solicitor, and offered to put the parties concerned into communication with each other, but then scarcely anyone responded. We are now again asked for advice from several quarters. The managers of the company, Messrs. Alfred Baaba & Co., 85 Acton Vale, W., have recently sent out a circular intimating that they have the offer of more capital to work the business, but adding that the capitalists will not invest it while these mortgage bonds are about. That is a perfectly intelligible and reasonable condition. The managers, therefore, ask the mortgagees to exchange their debentures for "fully-paid-up 8 per cent. ordinary priority shares," and we are asked by some correspondents whether it will be wise to agree to such an exchange. In reply we can only say that the request does not seem to us in any respect unreasonable. We have not much faith in the enterprise ourselves, and would not invest any of our hard-earned savings in the "8 per cent. priority shares"; but we have no wish to discourage the capitalists who think they can resuscitate the unfortunate company, and we can

quite understand that they do not care to hand over their shekels for the mortgagees to foreclose on. Messrs. Baaba & Co. might perhaps be asked to give a little more definite information as to these very plucky investors, and also as to the remaining assets of the company. But assuming that the statements made in their circular are fairly accurate, we can see no particular reason for preferring one piece of paper concerning this company to another.

MANCHESTER SCHOLARSHIP.

It will be observed from a notice which appears in this issue that the date is drawing near when students of pharmacy who wish to compete for the Manchester Pharmaceutical Association's scholarship are required to give in their names. This scholarship is one which is open only to those between 19 and 21, who have served three years in Lancashire, Cheshire, or the High Peak district of Derbyshire. It is of 30*l.* value, and one great advantage which it has over other scholarships is that the one who is fortunate in gaining it may study in a provincial school of pharmacy or in that of the Pharmaceutical Society. The examination will be held on the second Tuesday of July, simultaneously with the Preliminary examination, and the questions are the same as for the Bell scholarship. June 1 is the last day for entry.

THE VAN HOUTEN CASE IN PARIS.

The prosecution of the agents of Messrs. Van Houten in Paris, which collapsed in that city last week, was not a triumph for the analyst. It excited an extraordinary amount of interest, and, rightly or wrongly, was looked upon in some quarters as an international contest. Van Houten's cocoa has had an enviable reputation for the better part of a century for its purity, and it was somewhat surprising to its consumers when it was reported that it was challenged on this particular ground. The allegation for the prosecution was based on an analysis by M. Riehe, the professor of chemistry at the School of Pharmacy. M. Riehe reported that 20 per cent. of the cocoa-butter had been removed, and that 3 per cent. of potash had been added. The potash, he asserted, was in the form either of caustic or of carbonate of potash. There was no dispute about the first part of the charge, but the Court was made to understand that the fat in cocoa was not the same as the cream in milk, but was taken away to render the cocoa more digestible and more valuable. There was no direct evidence as to what Messrs. Van Houten add to their cocoa, but it was proved to the satisfaction of the Court that it was neither caustic potash nor carbonate of potash. M. Riehe himself showed signs of wavering in his confidence, and M. Brouardel, the medical expert who had testified to the unwholesomeness of the article, explained that his opinion depended on the accuracy of M. Riehe's report in regard to the salts in question. Messrs. Bardy, Armand Gautier, Dujardin-Beaumetz, and Vincent formed an imposing array of scientific witnesses for the defendants, and in the end the attack broke down completely. Apparently, a purpose of the instigators of the prosecution was to compel Van Houten to disclose the secret of his process which has been jealously guarded and inviolably preserved since 1819, for when it became evident that the weight of evidence was against the prosecution, the appointment of a commission of experts was coolly asked for. The Court refused to order this, declaring that the evidence of the scientific witnesses on both sides, considered together, had demonstrated positively that in the dose named in the prospectus the cocoa was not injurious to health; that the processes adopted by the makers were legitimate, and were not such as to falsify the product or render it in any respect injurious; and in consequence acquitted the defendants. If the prosecution was instigated, as has been alleged, by some rival French manufacturers, the result is likely to be to them the exact reverse of what was hoped.

HOFMANN'S PHARMACISTS.

The part that pharmacy played in the Hofmann Memorial meeting at Burlington House last week was not at all discreditable. Baron Playfair, of St. Andrews, was at one time in a Glasgow pharmacy, and Sir F. A. Abel, this week's baronet, is the son of a chemist who had a pharmacy in the Borough. Both these speakers mentioned the names of many men who went from pharmacy to support Hofmann in his London venture. It is also noteworthy that before there was any enthusiasm in England for pure chemistry, Mr. Lloyd Bulloek, of Bullock & Reynolds, was steadily advocating the foundation of such a school as Hofmann presided over.

INTERNATIONAL PHARMACEUTICAL CONGRESS.

We have received the official programme of the seventh International Pharmaceutical Congress, which is issued by Professors Remington and Maisch, of Philadelphia, on behalf of the American Pharmaceutical Association. The first session of the Congress will be opened at 9 A.M. on Monday, August 21, in the Memorial Art Palace, Chicago, which has been placed at the disposal of the Congress. The proceedings will be conducted in the English language, but German, French, Spanish, and Swedish interpreters will be present for the benefit of any who speak in these languages. The business of the Congress is to be divided into four sections: first, historical and ethical pharmacy; second, pharmaceutical education and legislation; third, pharmacopeial matters; and, fourth, a general section. Various questions for discussion are suggested in the programme, and papers upon them are invited. These should be addressed to Professor Maisch, 145N Tenth Street, Philadelphia. A cordial invitation is extended to all connected with pharmacy. The local arrangements are in charge of Dr. Oscar Oldberg, 2,421 Dearborn Street, Chicago.

THE EUDIOMETER.

Professor Herbert McLeod writes to *Nature* an interesting letter regarding the origin of the word "eudiometer." References to it have never gone further back than 1777, and they connect the apparatus with Priestley. All that Priestley appears to have done in the matter was to mention in his book, "Observations on Different Kinds of Air," that he had received from Marsilio Landriani one of his eudiometers together with a description. After some trouble Professor McLeod has found a copy of this book in the British Museum. The title is "Ricerche fisiche intorno alla salubrità dell' aria" (Milano, 1775, 8°). On page viii. of the introduction there is a paragraph of which the following is a translation:—

The account of the discovery of nitrous air and of some of its principal properties is briefly set forth, certain defects of Priestley's apparatus are removed, and there is added a detailed description of the *Eudiometer*, for that is the name which I give to my little instrument, from *Eudios*, a Greek word signifying goodness of the air (bontà dell' aria), accompanied by the more useful precautions for its construction.

There are some plates at the end of the book containing drawings of the apparatus, and one of them is marked "Eudiometro 1775." This seems to leave it without a doubt that it is to Landriani that we owe the word. By tradition we have been taught that the eudiometer is an apparatus for measuring the goodness of air, and this is obviously what was intended by Landriani.

MONKEY-BEZOAR FROM BORNEO.

Though bezoar-stones have long ago become obsolete in Western pharmacy, their virtues are still firmly believed in in China and the East. The Chinese appear to get their supply of this remedy mainly from Borneo, and a recent

traveller in that island, Mr. Charles Hose, Resident of the Baram District, Sarawak, who related his experiences to an audience at the Royal Geographical Society lately, thus describes the way in which they are obtained:—"The people (near Mount Dulit) are skilful in the use of the blow-pipe (sumpitan), and by the use of this weapon numbers of monkeys are killed, from which the bezoar-stones are obtained. These stones are held in great estimation by the Chinese, who purchase them readily at a high price, for using as medicine for all kinds of ailments. They are reported to be found both in the intestines and in the gall-bladder of the monkey. They are of various dimensions, usually flattened in shape, somewhat oval, from the size of a pea to that of a hen's egg—the largest realising from £20 to £25. The monkeys in which these stones are most commonly found are the *Semnopithecus rubicundus* and *Semnopithecus Hosei*. As after form of this stone is also found in the porcupine (*Hystrix crassispinis*). These animals are shot with poisoned arrows blown from the sumpitan. Sometimes the poison loses its virulence when not quite fresh, and the animal will then carry away the arrow. Monkeys have been shot in whose bodies a broken piece of an arrow has been found, covered with a coating of the substance called "bezoar" stone. The localities most frequented by these monkeys are the spurs of large mountains and salt-springs, which are common in the interior." It may be of interest here to record that in a recipe for "confectio Raleigh," dated 1741, which has just been brought to our notice, two of the ingredients are "Bez: Orient:" and "Bez: Occident:" Although we now know that the therapeutical efficacy of both these bezoars was exactly alike—viz., *nil*—our ancestors gave the preference to the Oriental drug, to the extent that the wholesale firm in whose records the original formula occurs paid 35s. per oz. for it, and only 4s. per oz. for the "Western" variety. In another recipe from the same source we notice that Bezoar occurs as an ingredient of Dr. James's fever powder. Is that the ingredient which the famous doctor so closely guarded as a secret?

NO PHARMACY LAW IN INDIA.

A club, a tailoring department, and others for wine, cigars, stationery, and fancy goods in association with drugs make a common enough combination in India, so that the following as a section of an Indian advertisement is not astonishing:—

The chemist and druggist department is under the management of Mr. O. J. Macintyre, A.P.S., pharmaceutical chemist.

The thing that does surprise the average British pharmacist is that a pharmaceutical chemist should be content to sport the humble letters "A.P.S.," but the apparent humility is explained when we turn up the registers and find that the gifted manager's name does not occur there. It seems a pity that the Indian Government should do nothing to limit the use of legalised English titles in India to those who have obtained the proper qualifications in England.

MR. T. A. ELLWOOD, PH.C., an ex-President of the Chemists' Assistants' Association, has passed the First Professional examination of the English Conjoint Medical Board.

MR. JAMES J. HICKS, scientific-instrument maker, of Hatton Garden, E.C., sails by s.s. *Etruria* on Saturday for New York and Chicago "World's Fair." Letters may be addressed to him at his American agents, Messrs. Oelschlaeger Bros., 42 East Twenty-third Street, New York.

OVER 500L. has already been received towards the "Rothamsted Jubilee Fund," which is being collected by a committee of distinguished men, with the object of erecting a granite memorial opposite the laboratory where Sir John Lawes has for over 50 years conducted his chemico-agricultural experiments at Rothamsted, Hertfordshire, and of having his portrait painted by an eminent artist.

ARTIFICIAL AND NATURAL MINERAL WATERS.

THE *British Medical Journal* reports that in a paper on "Artificial and Natural Mineral Waters," read by Professor Oscar Liebreich at the Balneological Congress recently held in Berlin, he began by asking: Is chemistry sufficiently advanced yet to produce artificial mineral water equal in all respects to the natural water? The answer is negative. The artificial production of mineral waters is a much more difficult matter even than the production of such substances as alizarine, indigo, &c., and the analyses, even of the most renowned analysts, fall short of the full contents of the water. In the natural mineral water, on evaporation, there is always a residuum which is not contained in the analyses of the artificial mineral waters. The carbonic-acid gas which furnishes the effervescence of natural mineral waters exists also in the form of "carbonic-acid hydrate." This has been inferred from the existence of another combination derivative from it—namely, carbonic-acid ethyl, which is probably contained in champagne and in other alcoholic effervescent drinks, and is known for its agreeable taste. It may be supposed that the action of an hydric carbonic-acid gas is different from that of carbonic-acid hydrate. "Even the best manufactured mineral waters," Professor Liebreich points out, "differ from the natural ones in taste and value; this difference it is not so easy to explain." He concludes by observing that, "As to the so-called 'indifferent' springs, it is a mistake to speak of them as of minor value." It must be remembered that they, too, contain mineral ingredients, if only in minimum quantities, which counteract the harmful properties of perfectly pure distilled water. Even hydrotherapy is a mineral-water treatment, for if the water used were without traces of mineral substances it would be poisonous. This has been sufficiently proved elsewhere.

POST-CARD COMPETITION.

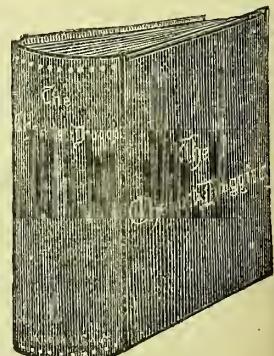
THE following are the sixteen candidates who go to the poll for the election of fourteen members of the Pharmaceutical Council:—

Abraham, A. C., Liverpool	Hampson, R., London
Allen, C. B., London	Hills, W., London
Atkins, S. R., Salisbury	Leigh, M., Brighton
Bateson, T., Kendal	Martin, N. H., Newcastle-on-Tyne
Bottle, A., Dover	Newsholme, G. T. W., Sheffield
Carteighe, M., London	Southall, A., Birmingham
Cross, W. G., Shrewsbury	Warren, W., London
Greenish, T., London	Young, J. R., Warrington

Subscribers, members of their families, and persons in their employment are invited to prophesy, on post-cards addressed to us, the order of these names as it will be published next week after the election. One guinea will be awarded for the most accurate forecast. No post-card delivered in this office after noon on Wednesday next, May 17, will be eligible for the competition.

READING-CASES FOR "THE CHEMIST AND DRUGGIST."

THE reading-cases which we offer to subscribers are now used by a very large number of chemists, and are found very convenient. They keep together thirteen numbers in very tidy form, always ready for reference. By having two cases in hand the numbers of a complete volume are always available until the time comes for binding. We sell these cases at the office for 1s., or by parcel post 1s. 3d., or two for 2s. 3d. We cannot forward them to any house for enclosure, nor by any of the carriers, as in the latter case we have to pay for booking.



Photographic Notes

THE PHOTOGRAPHIC SALON, 1893.

IT is intended to hold an exhibition under this name in the Dudley Gallery, Piccadilly, from October 6 to November 11. The general committee number many well-known amateur and professional photographers. Selected works of pictorial merit only will be hung, the idea of the promoters being to bring "before the public the best productions of photography solely from the pictorial point of view." No awards are to be made, and there will be no charge to exhibitors.

THE "HOLIDAY" PHOTOGRAPHER'S LAMP.

MANY amateur photographers when on tour require to take with them a safe lamp for changing plates, developing, &c. Messrs. Benham & Froud, Chandos Street, W.C., have made several improvements in their "Holiday Lamp," which make it a very perfect lamp for the tourist. It is supplied with a clear glass to replace the ruby glass, so that it can serve as a reading-lamp. It packs into a very small space, and the candles, which are specially made, are not greasy, and fit into a spring-tube. The coloured glass supplied is quite safe for the most sensitive plates and films in the market.

DEVELOPMENT OF INSTANTANEOUS NEGATIVES.

IN these days of hand-camera work any formula for development of instantaneous negatives is gladly seized upon by the amateur worker. The following has been proved to do its work well:—

	Parts			
Hot water, pure	1,000
Sulphite of soda	75
Eikonogen	15
2.				
Water, pure	1,000
Carbonate of soda	150

Commence development in a mixture of 3 parts of No. 1, and 1 part of No. 2, then use of No. 3 3 parts, and No. 4 1 part:—

	Parts			
Hot water, pure	1,000
Sulphite of soda	75
Eikonogen	35
4.				
Water, pure	1,000
Carbonate of potash	150

BACKING ISOCHROMATIC PLATES.

MOIST burnt sienna, as used for water-colour painting, will furnish a good backing, laid on with a fine camel-hair brush or a sponge, but the following is recommended, to those who wish to make up their own backing medium, by the editor of the *Photographic News* :—

Powdered burnt sienna ..	..	..	..	1 oz.
Gum arabic ..	..	..	..	1 oz.
Glycerine ..	..	..	..	2 drams.
Water ..	..	..	..	10 oz.

METOL AS A DEVELOPER.

MR. ANDREW PRINGLE, a great authority upon all questions of photographic science, says of "metol":—"Since the days of pyro. I have met with no reagent for development so much under control, so convenient to keep, more powerful, or, on the whole, so pleasant to work as 'metol.'" He gives the following formula:—

Metol ..	..	..	..	..	60 gr.
Sodium sulphite ..	..	..	..	..	360 "
Potassium carbonate ..	..	..	..	..	180 "
Water ..	..	..	..	..	8 oz.

This solution stood in the sunlight in an unstoppered bottle for ten days, and was, he says, almost as clear and quite as powerful as when first compounded. Without the alkali, or with a small proportion of potassium metasulphite, it will keep good and clear indefinitely.

TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should at once communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the "Trade Marks Journal," April 26, 1893.)

"SILVER'S PILLS" and "SILVER'S OIL," and device of gir and lion holding bottle and pills, and snakes representing diseases, on label; for pills and medicated oils. By John Silver, 68 Southbridge Road, Croydon. The essential particular is the device. 168,192.

"VINCERDA COCA WINE," and device of vine and coca-plant and wording on label; for coca medicated wine. By J. E. Pickering, trading as P. Cerdá, 10 Leicester Place, London, W.C. The essential particular is the combination of the device. 169,206.

"AYER'S PILLS," on floral label; for pills. By J. C. Ayer & Co., Lowell, Mass., U.S.A. 170,411.

"YE OLDE ENGLISHE LAVENDER-WATER," and other wording and seal, on black-edged label; for lavender-water. By Breidenbach & Co., 48 Greek Street, Soho Square, London. The essential particular is the device. 169,470.

Picture of Marie Antoinette and name; for toilet preparations for the hair. By F. R. Roper, 69 Westwick Gardens, West Kensington, London. The essential particulars are the device and words "Marie Antoinette." 171,342.

"IZAL"; for perfumery and toilet articles. By Newton Chambers & Co. (Limited), Thorncliffe Ironworks, near Sheffield. 171,814.

(From the "Trade Marks Journal," May 3, 1893.)

"ZOZZINOL"; for a veterinary preparation. By Day & Sons, Animal Medicine Works, Crewe. 171,513.

"URICEDIN," initials of applicant, and device of two crossed pennons and black segment of a circle; for a crystallised salt in cakes, for diabetes. By J. E. Stroschein, 104 Skalitzer Strasse, Berlin. 170,316. The essential particular is the combination of devices.

"PHILLIPS ONLY CURE COMPANY," and signature; for chemical substances used in medicine and pharmacy. By J. Phillips and Fanny Phillips, trading as above, 97 Byrom Street, Liverpool. 170,900.

"MENALINE"; for medicinal preparation. By Wedekind & Co., 5 Great Tower Street, E.C. 171,598.

"IZAL"; for chemical substances used in medicine and pharmacy. By Newton, Chambers & Co. (Limited), Thorncliffe, near Sheffield. 171,812.

"BAVEDA"; for mineral and aerated waters. By C. W. Crossley, 14 St. Mary Axe, London. 171,575.

Device of snail with shell on back; for perfumery and toilet articles. By Dodd Bros., 2 St. Andrew's Pavement, Stamford Hill, London. 171,102.

"YULETIDE"; for perfumery. By Southall Bros. & Barclay, Bull Street, Birmingham. 171,667.

"IMOSA"; for face-powder. By Amy V. Ridler, 59 New Bond Street, London. 171,757.

(From the "Trade Marks Journal," May 10, 1893.)

Device of bull-dog drawing a ball inscribed with monogram; for dog medicines. By J. M. Humble, 2 Gothenburg Buildings, Horse Fair, Birmingham. The essential particular is the combination of devices. 170,240.

"SEA-WEED LUNG LIFE"; sketch of children on sea-shore, and device of sea-weeds on label, for a medicine for human use. By J. Hughes, Clive Crescent, Penarth. The essential particular is the combination of devices. 169,216.

"RENTANA"; a medicine for human use. By L. T. Ashwell, Natal House, Hadlow, Kent. 171,290.

New Companies.

LIEBIG MEDICATED-WINE COMPANY (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To establish and carry on the business of manufacturers of and dealers in medicated wine, malt extract, beef extract, &c. The first subscribers (who take one share each) are:—J. A. Jessop, 25 Lumb Lane, Bradford, manufacturing chemist; E. Topham, 14 Bradley Street, Bradford, chemist's assistant; P. B. Hayton, Bramley, Leeds, dentist; Eliza Jessop, Bradford; W. H. Armitage, 23 John William Street, Huddersfield, accountant; G. P. Norton, 23 John William Street, Huddersfield, accountant; G. Walker, 22 Grosvenor Road, Bradford, accountant.

INIVINI (LIMITED).—With a capital of 6,000*l.*, in 1*l.* shares, to carry on the business of animal-food manufacturers, or any other like business, in London or elsewhere in the United Kingdom. The first subscribers (who take one share each) are:—F. Boulding, 138 Walworth Road, S.E., stationer; W. D. Howe, 93 Clacton Road, Walthamstow, accountant; F. Taylor, 7c Broad Street Buildings, E.C., warehouseman; W. Douglas, 31 Chester Street, S.E., musician; A. Jackson, 29 Albany Road, E., agent; J. Brightwell, Dorset Square, N.W., clerk; W. B. Hodgson, Manor Park, E., clerk. Registered office, 18 Tyndale Place, Islington, N.

R. J. COMELY & CO. (LIMITED).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of chemists and druggists and patent-medicine vendors, at 9 Mill Street, Kidderminster. The first subscribers (who take one share each, with two exceptions) are:—R. J. Comely, 28 Wood Street, Wollaston, Stourbridge, chemist's assistant (490 shares); Eliza Comely, wife of the above (five shares); A. H. Benson, 10 Darlington Street, Wigan, chemist and druggist; R. M. Comely, Hay Green, Stourbridge, gentleman; Emma Comely, wife of above; H. J. Comely, 29 Mill Street, Kidderminster, outfitter; Eliza V. Comely, wife of above. Registered without articles of association.

PARK LANE CHEMICAL COMPANY (LIMITED).—Capital 2,000*l.*, in 5*l.* shares. Objects: To carry on the business of manufacturers of chemical preparations, chemical and scientific apparatus, salts, acids, alkalies, drugs, medicines, &c. The first subscribers (who take one share each) are:—A. Lees, 213 Katherine Street, Ashton-under-Lyne, clerk; J. Hilton, 143 Union Street, Ashton, clerk; T. E. Blackshaw, 42 Shakespeare Street, Manchester, clerk; T. Duffield, Platt Lane, Rusholme, salesman; W. H. Barrett, 11 Islington Square, Salford, warehouseman; T. W. Rodgers, 5 Rosamund Street East, Chorlton-on-Medlock, warehouseman; G. R. Heathcote West View, Dukinfield, clerk. Registered without articles of association.

THE RUDDOLPH LABORATORY COMPANY (LIMITED).—Capital 10,000*l.*, in 10*l.* shares. Objects: To acquire the goodwill of the businesses carried on by H. Atkinson, of 29 London Road, Reading, and to carry on business as manufacturers of and wholesale and retail dealers in drugs, chemicals, patent and other medicines, druggists' sundries, medicinal and chemical preparations, &c. The first subscribers (who take twenty-five shares each) are:—J. F. Sargeant, Holly Bank, Bracknell, solicitor; J. H. Knowles, 38 Oxford Street, Reading, chemist; F. C. Atkinson, Sproughton, Ipswich, newspaper proprietor; A. V. Knowles, London Road, Reading, gentleman; C. H. Cox, 37 Walbrook, London, publisher; H. Atkinson, Heath Villa, Reading, manufacturing chemist; W. H. Sandwith, Bracknell, pharmaceutical chemist. The above-named are also the first directors of the company. Qualification, 250*l.* Remuneration to be determined by the company in general meeting.

THE GLASGOW AND WEST OF SCOTLAND AERATED-WATER MANUFACTURERS' DEFENCE ASSOCIATION (LIMITED).—Objects: To raise a fund by annual subscriptions, entrance-fees, &c., to protect the bottles and boxes of members bearing their names or trade-marks, or the name or trade-mark of the Association, from being used or dealt with by persons not having lawful authority for using or dealing with the same, &c. Every member of the Association undertakes to contribute to the assets of the Association in the event of its being wound up during the time that he is a member, or within one year afterwards, a sum not exceeding 2*l.* The

first subscribers to the Association are:—John Done, 51 Pitt Street, Glasgow, aerated-water manufacturer; John Mair, 35 Annfield Street, Glasgow, aerated-water manufacturer; Henry Ferry, 89 Bath Street, Glasgow, aerated-water manufacturer; John Colthart, 193 Commercial Road, Glasgow, aerated-water manufacturer; William Manderson, 45 Rope-work Lane, Glasgow, manufacturing chemist; Alexander McGlashan, 100 Stirling Road, Glasgow, engineer; and Wm. Walker, 101 West Bridgend, Dumbarton, aerated-water manufacturer.

Trade Notes.

MESSRS. C. H. BOEHRINGER SOHN, chemical manufacturers, of Nieder-Ingelheim-on-the-Rhine, have appointed Messrs. Brummerstaedt & Lüders, 60 Mark Lane, E.C., sole agents for the sale of their cocaine.

THE Blackfriars Photographic and Sensitising Company, of 1 Surrey Row, Blackfriars Road, are pushing ahead, as is evidenced by the fact that they have lately opened a showroom and warehouse at 232 Blackfriars Road, S.E.

THE directors of Liebig's Extract of Meat Company (Limited) recommend a final dividend for the year 1892 of 12*l* per cent., making, with the interim dividend paid on February 15, 17*l* per cent. for the year, being the same as last year.

MESSRS. W. PEARCE & SONS have obtained the consent of the London County Council to the construction of three sulphuric-acid chambers (the cubical capacity of which chambers will exceed 216,000 but not exceed 450,000 feet) at the chemical-works, No. 1 Bow Common Lane.

AMIDOL, METOL, AND GLYCIN.—The trade-note published last week concerning these developers did not give sufficiently complete information. The dispute between the German makers as to the manufacture and use of the names of these products has been settled, the Actien Gesellschaft für anilin Fabrikation at Berlin, and J. Hauff, Feuerback, Stuttgart, both retaining the right. Messrs. A. Schwarz & Co., 9 New Broad Street, are the London agents for the former, and Messrs. Fuerst Bros., 17 Philpot Lane, for the latter.

UNDER the name of "Stamina Tablets," the Frame Food Company (Limited), Battersea, produce a kind of food confection which they are now offering to chemists as a novelty. We think it is one which chemists could make a good deal of. The basis of the tablets is "Frame Food extract," which is rich in nutrient, but is somewhat tasteless, therefore it is combined in the tablets with a small proportion of lozengepaste. There is thus formed a tablet agreeable to taste, and which has the property of assuaging hunger and thirst sufficiently long to make them a *vade mecum* for cyclists and others.

WE have examined a sample of the "Lubra Brand" of eucalyptus oil distilled by Messrs. Woods & Co. in Kangaroo Island, S.A. from the young leaves of *Eucalyptus cneorifolia*. The characteristic which distinguishes this oil from any we have hitherto examined is its freedom from any but mere traces of aldehydic bodies distilling below 170° C. It has a specific gravity of 0.8975 at 18° C., has a very pleasant odour, and is apparently rich in eucalyptol. The London agents for the distillers are Messrs. F. & S. Chiesman & Co., 118 Bishopsgate Street, E.C., and the oil may also be seen at the Imperial Institute.

MESSES. ZIMMER & CO., chemical-manufacturers, of Feuerbach, near Stuttgart, and Frankfort-on-the-Main, have converted their business into a limited liability company ("Gesellschaft mit beschränkter Haftung") which will continue the business of Zimmer & Co. without alteration under the style of "Vereinigte Chininfabriken Zimmer & Co." Dr. Albert Weller, in Frankfort-on-the-Main, and Dr. Oswald Hesse, in Feuerbach, near Stuttgart, have been appointed managing directors, while Messrs. Wilhelm Eitel and Theophil Regelmann have collective procuratorial. The new firm announce that they will continue to remain in close business alliance with their predecessor, the house of Fridr. Jobst, in Stuttgart.

Legal Reports.

THE KEELEY GOLD-CURE.

In the Court of Queen's Bench, on Friday, before Mr. Justice Cave and Mr. Justice Lawrence, Mr. Lewis Coward appealed on behalf of the proprietors of the *Lancet*, from an order of Mr. Justice Mathew directing a commission to issue to Chicago. He explained that the action is brought by Dr. Keeley, of "Keeley's Double Chloride of Gold Cure" fame, for libel alleged by him to have been published in the *Lancet*.

Mr. Finlay, Q.C., and Mr. George White, for the plaintiff, appeared in support of the order for the commission.

Mr. Justice Cave: Can you show me the plaintiff's diploma?

Mr. Finlay: Yes. If the other side will admit it, no commission will be necessary. It is at present at Chicago. Will your Lordship give us a little time to produce the diploma?

Mr. Justice Cave: Yes.

The case was then ordered to stand over for the present.

A SPONGE TRANSACTION.

ON Tuesday, in the High Court, before Lord Chief Justice Coleridge and a special jury, Mr. Philip Rosenstein, wholesale sponge-dealer, of Leeds, brought an action against Messrs. Cresswell Brothers & Schmitz, sponge merchants and importers, of Red Lion Square, London, alleging fraud in the substitution of an inferior quality of sponges for those purchased by the plaintiff. The defendants denied absolutely the allegations, and counterclaimed for 37l. 7s. 6d., balance of account.

Counsel engaged in the case were Mr. Redman for the plaintiff, and Mr. Harris, Q.C., and Mr. Peile for the defendants.

The plaintiff's case was that in May and October, 1891, and also in Jun^o, 1892, Mr. Rosenstein came to London and purchased goods to the value altogether of 200*l.* odd. He selected the sponges himself, and saw them packed. On their delivery, however, at Leeds he found they were only worth half the money given for them, and he alleged that the goods had been changed, and an inferior article sent.

The plaintiff, in his evidence, said that on May 2, 1891, he received a communication from the defendants stating that they had a fresh consignment of sponges for sale. He came up to London, and saw the sponges at Messrs. Cresswell's warehouse, where they were spread out on the floor. He picked out a large number of Cuban grass sponges at 1*s.* a dozen, and before leaving the warehouse he saw part of the goods packed. Three or four days afterwards, however, when the goods were delivered at Leeds, he found the sponges were not those he had purchased, and were only worth about 6*d.* a dozen.

At this point a letter was put in by the defendants written on May 6 to Mr. Rosenstein, saying that part of the order had been sent, and they must have a remittance before forwarding the remainder, as the price at which the plaintiff had purchased the sponges did not admit of credit. After that Mr. Rosenstein sent a cheque for the balance he owed the defendants' firm.

The plaintiff, in further evidence, said a similar change had taken place in reference to the purchase of 17,000 Cuban grass sponges in October at 9*d.* per dozen. The defendants then forwarded sponges worth only 6*d.* per dozen. In June, 1892, he purchased another 17,000 sponges. He purchased them at 1*s.* per dozen, half being worth 1*s.* 4*d.* per dozen, and the other half worth 8*d.* On arrival he found a number of the best sponges had been removed, and that the average value was only about 6*d.* per dozen.

His Lordship pointed out that the plaintiff had forwarded a cheque for the goods purchased on October 29, and in May after he had inspected the sponges.

The plaintiff said he sent the money because he did not want to quarrel with the defendants, who were his friends.

His Lordship: Yet you now charge them with fraud.

Mr. Harris said that in December the plaintiff wrote to Messrs. Cresswell apologising for anything he had said about the goods and begging them to forgive him, and to deal with him again. He said, "I beg to be forgiven, I had no wish to extort money. We have always had fair transactions to-

gether, and I hope we shall continue to do so." In the following June he went to the defendants and selected another lot of sponges. As soon as he got them he complained that they were not what he bought. After this he got hold of a discharged servant of the defendants and brought these charges. This he had done notwithstanding that he said he was insolvent and had induced the defendants to let him off a sum of over 30*l.*

His Lordship said that the plaintiff having examined the goods and then paid for them could not sustain a charge of fraud.

The jury intimated that they could make nothing of the case. They desired to give a verdict for the defendants.

His Lordship agreed with the jury.

Mr. Harris said he desired to call Mr. Cresswell to show there was not the slightest foundation for the charges of fraud.

His Lordship: The matter is so plain, you need not trouble. I give judgment for the defendants on the claim and counter-claim, with costs.

Mr. Redman said that the defendants practically abandoned the counterclaim.

His Lordship: Then there will be judgment for the defendants on the counterclaim, on the understanding that they do not enforce it, and there will be no costs on the counterclaim.

IS COLOURED ACETIC ACID VINEGAR?

ON Monday last, at the Hanley Police Court, a summons was heard under the Sale of Food and Drugs Act against David Parkinson Norton, vinegar-brewer, of Foundry Street, for selling a quantity of vinegar alleged to be adulterated with coloured acetic acid. The Town Clerk (Mr. A. Chalilinor) appeared to prosecute, and explained that the defendant had been selling an article alleged to be vinegar, but which was sold to the prejudice of the purchaser, as it did not contain what was demanded. The purchase of the article was proved, and the analyst's certificate showed that the liquid purchased contained 10 per cent. of vinegar, the rest being coloured acetic acid. Mr. Richardson, for the defence, contended that acetic acid was a necessary part and proper ingredient of vinegar, and was, as a matter of fact, vinegar itself. Vinegar need not necessarily be a product of the fermentation of malt. The sample had been submitted to an expert, and the only deduction he could draw was that it was not only vinegar, but contained 100 per cent. of vinegar. The Stipendiary said he was bound by the definition of the British Pharmacopoeia, which stated that vinegar was an acid liquid prepared from the mixture of malted and unmalted grain by the acetous fermentation. Mr. Harry Grimshaw, analytical chemist, of Manchester, who was called, said the sample was in his opinion good wholesome vinegar. He should prefer it to the article which was generally called "malt vinegar." The case was adjourned to May 29 for a sample to be sent to Somerset House.

SEQUAH'S CAPITAL.

Mr. JUSTICE STIRLING, in the Chancery Division on Saturday last, sanctioned the resolution of the Sequah Company to reduce their nominal capital from 300,000*l.* to 150,000*l.*

In explaining the case to the Court, Mr. Buckley, Q.C., for the company, stated that the capital had been all issued and fully paid up, and it was proposed to reduce the shares from 1*l.* to 10*s.* each. The losses were made up as follows:—They proposed to write down the value of the goodwill and trademarks, 91,000*l.*; they had lost 35,000*l.* on the profit-and-loss account; and the balance was made up of smaller items: 3,000*l.* on drugs, 4,000*l.* on horses and waggons, 4,700*l.* on shares and debentures, and 11,000*l.* in advertising and developing the wagon business by which the drugs were taken round the country for sale—a business which was now entirely at an end. Affidavits from the Secretary and Chairman of the company stated that the horses and waggons had been sold at a loss, or abandoned abroad as not worth the cost of reshipment to this country. The item "shares and debentures, 4,700*l.*" was the loss upon an investment the company had made in another company, now in liquidation. These witnesses stated that no profit had been made by the

company in respect of its trading in 1892. Instead thereof, there had been a loss, and the value of the goodwill, which consisted entirely in and was measured exclusively by the profits earned, should be reduced as proposed. They originally paid 240,000*l.* for the goodwill upon the basis of 40,000*l.* profit a year. Counsel added that perhaps the only doubt was whether the goodwill had not shrunk by a good deal more than the amount stated.

His Lordship: Are there no creditors?

Mr. Buckley replied that nothing had been proved in respect to the creditors, because this was only writing off lost capital. The creditors of the company were for the most part the usual trade creditors, and the whole of the debts so far as known did not exceed 3,500*l.* Of course, they had not inquired as to creditors. The petition had been advertised in the ordinary way, and nobody appeared to oppose it.

His Lordship granted the petition, but ordered that the words "and reduced" be used by the company for a month.

SALE OF POISONS BY AN UNQUALIFIED DRUG-STORE KEEPER.

AT the Bristol County Court, on May 9, before his Honour Judge Austin, an action was brought by the Pharmaceutical Society against Robert Day Judd, a drug-store keeper, of Keynsham, to recover four penalties of 5*l.* each for selling oxalic acid and laudanum on four different occasions, in the month of January, contrary to the provisions of the Pharmacy Act of 1868, the defendant not being a duly certificated chemist. Mr. T. R. Grey (London) was counsel for the plaintiffs, and Mr. J. H. Clifton (Clifton, Carter & Co.) appeared for the defence. Mr. Grey explained the nature of defendant's offence, and said that he had not yet paid the penalties which the Pharmaceutical Society had demanded from him. Mr. Clifton asked that an order should be made for the payment of the 20*l.* in instalments, and called the defendant, who stated that he had kept the Keynsham Drug-stores since June 24 last. He did not describe himself as a chemist. When the Pharmaceutical Society called his attention to his selling poisons he gave up doing so at once. He did not dispute that he ought to pay the penalties. In giving judgment his Honour said that Mr. Clifton admitted that his client had been guilty of an infringement of the Act, but he asked that an order should be made for the payment of the 20*l.* in instalments. Of course, he (the Judge) had the power to make such an order, but the question was whether under the circumstances of the case it was his duty to do so. He was of opinion that it was not. Those penalties were highly salutary, and they were often difficult to enforce. They were penalties for the protection of the public, and they should be enforced with some degree of sternness. He was quite aware that in this particular case there had been no moral intention on the part of Mr. Judd to do wrong, but of the question was not one of intentional wrong-doing, but of the infraction of an extremely salutary piece of legislation. Under these circumstances he felt bound to refuse Mr. Clifton's request, and to make an order for the payment of the four penalties forthwith. Of course, the Pharmaceutical Society might make the penalty a little lighter if they liked. All costs and counsel's fees were allowed.

Bankruptcy Reports.

Re ALEXANDER RICKARBY, 22 Bath Street, Abingdon, Pharmaceutical Chemist.

In this bankruptcy the gross liabilities are estimated to amount to 1,020*l.* 14*s.* 11*d.*, expected to rank 582*l.* 18*s.* 11*d.* The assets are estimated by the debtor to produce 302*l.* 6*s.* 4*d.* The debtor alleges the causes of his failure to be competition of stores, having to give long credit, and very little ready-money trade. The following are the Official Receiver's observations:—"The receiving order was made on the debtor's own petition. He tells me he is 41 years of age; that he was born in Oxford, and brought up at Walton-on-the-Naze as a chemist; he went into business there on his own account about 1877 with a capital of 250*l.*, which his father

advanced him. In 1888 he filed his petition in the Colchester County Court, having failed for about 500*l.* He then paid his creditors 5*s.* in the pound. In June, 1890, he started at Abingdon with a capital of about 300*l.* which he received from his father's estate. He kept a day-book in which he entered both his cash and the goods he sold, a ledger, and a banking account. As to his assets as above, I doubt the trade fixtures and fittings realising the full amount he has mentioned. They certainly would not do so unless his business were sold by valuation to a succeeding chemist as a going concern. When he filed his petition two creditors had signed judgments, and a County Court execution had been levied on his goods. Part of the furniture is claimed by his wife."

Re GEORGE DUNCAN BOWIE, 17 St. George's Avenue, Tufnell Park, Chemist.

THE first meeting of creditors under this failure was held at the London Bankruptcy Court, on May 5, before Mr. G. Wreford, Senior Official Receiver.

Mr. S. R. Pollard attended on behalf of Mr. Howard Rumney, the petitioning creditor, and stated that his client claimed 82*l.* 19*s.* 4*d.* in respect of law-costs. The debtor brought an action against Mr. Rumney on the ground that the latter, a solicitor, had agreed to advance money for the purpose of exploiting a patent medicine and had failed to carry out that agreement. No attempt had been made to prove that any written agreement had been given, and, as a fact, the only arrangement was that Mr. Rumney agreed to advance a sum not exceeding 200*l.* towards exploiting the patent in consideration of receiving a proportion of the profits that might be made. Mr. Rumney, so far from breaking his part of the arrangement, had expended nearly 1,500*l.* over the matter, partly by reason of his having been represented as a partner to outsiders. All sorts of actions had been taken against him, some of which he had been called upon to pay, and for some of which he was not held responsible. Under all the circumstances the action brought against his client by the debtor was a most monstrous one, as was shown by the statement of claim, and although the debtor carried it up to trial, he did not then appear, and judgment was given against him, the only result of the proceedings being that Mr. Rumney had been put to a considerable expense.

In reply to a question from the Chairman, Mr. Pollard said his client emphatically denied that he had ever been a partner with the debtor, or that any agreement in writing between them had existed.

The Chairman inquired of the debtor why, having instituted proceedings against Mr. Rumney, he did not carry them through.

The debtor said that, whilst acting as assistant to the public analyst of Guernsey, he took out a patent for an improved salt, and was in want of a financier to exploit the patent. Mr. Hedley, an agent of Sequah's, visited the island with their remedies, and, hearing that he (debtor) had a patent to bring out, suggested that he would introduce a financier to him for a consideration. The result was that some time afterwards he received a letter from Sequah's agent stating that Mr. Rumney was willing to take the matter in hand. He (debtor) removed to London in November, 1890, and saw Mr. Rumney, who agreed to start operations and to form a limited company to acquire the patent. The negotiations proceeded until Mr. Rumney and Mr. Hedley quarrelled, and since then the business had not earned a penny.

The Chairman: Do you suggest that there was a partnership deed between you and Mr. Rumney?

The Debtor: I do. Mr. Rumney has the deed, and ought to produce it.

Mr. Rumney: That is not so, sir. I have been in the witness-box and sworn to the contrary.

Mr. Pollard: The only arrangement between them was that Mr. Rumney was to have one-third of the profits upon the successful floating of the company.

In reply to questions, the debtor said he had deposited the patent with his own solicitor as part security for costs. The action was not carried through owing to a misunderstanding as to the date of trial.

In the absence of any offer on the part of the debtor, no resolution was passed, and the Chairman remained as trustee to wind up the estate in the usual course of bankruptcy. The debtor was ordered to attend the court on May 17 for public examination.

The following are the only creditors, viz.:—

Unsecured.

	£ s. d.
Rumney, Howard, 17 and 18 Basinghall Street, E.C.	85 0 0

Partly Secured.

Bassett, Charles, 412 Mansion House Chambers, E.C.	75 0 0
(Security valued at 10 <i>l.</i>)	

Re J. HUNTER WATTS & Co., 39 Seething Lane, E.C., Chemists and Merchants.

THE failure has been announced at the London Bankruptcy Court of J. Hunter Watts, trading under the above style. The receiving order was made upon the application of Mr. J. Curtis, acting on behalf of creditors. The debtor states that he resides in furnished apartments, and rents an office at 39 Seething Lane. He has no stock, the business being entirely upon commission. He recently transferred 200 mining shares to the petitioning creditors as part security for their debt, and has, in addition, handed him cash 20*l.* since the filing of the petition. Although trading as J. Hunter Watts & Co., there was no partner in the business. No particulars transpired as to assets or liabilities.

Re JOE TODD, Carlisle, Chemist.

THIS matter again came before his Honour Judge Stevenson, at the last sitting of the Carlisle Bankruptcy Court.

Mr. Sewell, on behalf of the debtor, said the Official Receiver opposed the discharge on three grounds: firstly, that the bankrupt had failed to keep proper books of account; secondly, that he had continued to trade after becoming aware of his insolvency; and thirdly, that the assets were not sufficient to pay 10*s.* in the pound.

His Honour said he was satisfied as to the first two points.

Mr. Sewell submitted that the fact of his client being unable to pay 10*s.* in the pound was due to circumstances over which he had no control, as if the debtor had been allowed to remain as manager to the company, he would have made the shares which he held of considerable value.

The debtor, on being questioned by the Official Receiver as to his dismissal, said he was instructed not to supply goods to his son. He did not supply his son with goods through a third person, although it was true that some of the goods supplied to the third person went to his son. He was managing director of the company when an interim dividend was paid, but it was not done through statements made by him. He would not say if the dividend was paid against his expressed wish, neither would he say if he voted for or against it. He did not think the profits justified the payment of that dividend. He made a full disclosure of his trade-liabilities when he sold the business, and the debts which the company claimed to have since paid had nothing to do with the business. He did not receive any of the 350*l.* which was to be paid him in cash. Mr. Saint received the money, and it was spent in preliminary expenses. In 1891 he borrowed 470*l.* from an insurance company, and it went to the bank. Mr. Saint lent him 650*l.* in 1891, which was put into the business. The reason he had not entered these amounts in his cash account was because he looked upon them as private debts. With regard to the deferred shares, he did not know they had been sold at 1*s.* per share. When the business was transferred, he was not able to pay his creditors in cash, but he could have paid them by degrees. He admitted that for some time previously he had been pressed by creditors.

The Official Receiver alleged that in 1891 and 1892 the debtor paid some of his creditors in full, to the detriment of others.

Mr. Sewell said he did that because he was pressed by those creditors.

The Official Receiver: Mr. Sewell was one of the favoured creditors. (Laughter.)

Mr. Sewell said he had often refuted that statement, as he had only been paid out-of-pocket expenses.

His Honour, in reviewing the case, said when the business was transferred it was solvent enough, so long as it was separated from what were called private liabilities—or, to put it in another way, the business was solvent but the man was insolvent. The debtor had admitted that for some time before the transfer he could not pay his debts as they became due, therefore he must have traded after becoming aware of his insolvency. The Legislature considered that a very serious offence, and one that must be met with severe punishment. The debtor's assets, too, were not sufficient to pay 10*s.* in the pound. The Official Receiver reported that the debtor had omitted to keep such books of account as would sufficiently disclose his financial position. Taking all the circumstances into consideration, he must suspend the discharge for three years.

MARRIAGE.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

BEARDMORE—KAY.—On May 9, at Holy Trinity Church, Heath Town, by the Rev. J. W. Morison, assisted by the Rev. J. M. J. Fletcher, Vicar of St. Andrew's, Wolverhampton, Alfred Edmund Beardmore, chemist, second son of the late Councillor Beardmore, to Clara Beatrice Kay, third daughter of Mr. Edwin Kay, Shareshill Lodge, Wolverhampton.

DEATHS.

BUZZARD.—At the Three Cups Hotel, Leicester, where he had been residing, Thomas Hardy Buzzard. Aged about 50. Mr. Buzzard formerly occupied the chemist's shop in the Market Place which is now tenanted by Mr. Cadoux, and on leaving there qualified as a medical practitioner, and practised at various places, including Birmingham. He does not seem to have prospered, for about six months ago he came to lodge at the Three Cups, and lived there since on a small income which he derived from some property. About 2 o'clock on Friday morning of last week the landlord heard deceased moving about, and then heard a fall. He went downstairs, and found the deceased on the ground, and he died before medical assistance could be procured.

CARTWRIGHT.—On February 16, J. H. Cartwright, chemist and druggist, Wigmore Street. Aged 57.

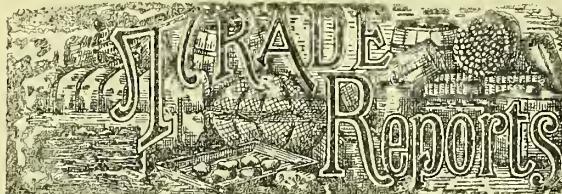
MARTIN.—At Peterhead, on Saturday last, Mr. J. F. Martin, chemist and druggist. The deceased gentleman, just before shutting up his shop, was seized with a severe fit of apoplexy, and was rendered unconscious. He was conveyed home in a cab, but lived only five minutes after reaching his house in St. Peter Street. Mr. Martin was a native of Aherdeen. For a time he was in business at Stonehaven, but went to Peterhead over twenty years ago, purchasing the business in Merchant Street from the late Mr. Lumsden. Mr. Martin is survived by a widow and a large family.

MOON.—On April 25, M. J. Moon, chemist and druggist, Holloway. Aged 42.

WELCH.—On April 21, A. E. Welch, chemist and druggist, Yarmouth. Aged 41.

MR. THOMAS SELLORS, chemist, Cross Cheaping, and his son, Mr. H. Sellors, were driving down Bishop Street, Coventry, ten days ago, when the horse slipped and both gentlemen were thrown out of the trap. They were able to walk home.

MYXEDEMA is quite a rare disease, says the *Homeopathic World*. Most medical men seldom see more than one or two cases in the course of their professional lives. But, to judge from the appearance of the medical journals, one would imagine there was a perfect epidemic. This is all on account of the "rage" in thyroid juice that now prevails. We happen to know of one case at present, that of a poor woman, who is quite beset by doctors of different institutions each anxious to secure her as a patient that he may cover himself with glory by exhibiting her photograph later on.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollect that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., May 11.

Our Foreign Trade.

The Board of Trade Returns for April, which have just been published, are not so depressingly adverse as those of the previous three months, but that is the best that can be said for them. The total imports into this country were valued at 32,125,359*l.* in April, 1893, against 34,920,272*l.* in April, 1892, while the figures for the first four months are:—1893, 129,070,308*l.*; 1892, 145,014,191*l.* The decrease in the imports of chemicals, dye-stuffs, and tanning substances for the four months is about 6 per cent.—viz., 2,751,968*l.*, against 2,921,434*l.* In "oils," there has been a slight increase—2,467,503*l.*, against 2,305,569*l.* The fall in the value of raw tanning and dyeing materials is very marked, and our imports of aniline and alizarine dyes also show a very pronounced decline. The increase in the value of the oil-imports is still owing to the recent boom in the fixed-oil market, but as the excitement has now simmered down, we may expect a decline under this head in future returns.

Chemicals are almost the only department of our exports in which the four months' trading shows a substantial increase over last year's, the figures being 3,199,886*l.* and 2,924,528*l.* respectively. The alkali-exports are nearly 15 per cent. in excess of those of the first four months of 1892, Germany, France, and North America having bought much more heavily, while the exports to Russia are constantly diminishing, and seem likely soon to cease entirely. The exports of medicines, comprising drugs and medicinal preparations, amounted to 346,083*l.*, 345,043*l.*, and 321,577*l.* in the first four months of 1891, 1892, and 1893 respectively.

ACID (CITRIC).—The English manufacturers report sales at 1*s.* 5*1/4d.* per lb., usual terms.

ACID (TARTARIC).—The demand seems to have considerably improved, although prices show no change for the better as yet. The quotations (at which business is reported to be constantly transacted) range from 11*d.* to 12*d.* per lb. on the spot, according to brand.

ALOES.—*Curacao* aloes remains neglected. The total quantity placed on sale to-day amounted to 161 boxes, of which 100 sold at 12*s.* to 13*s.* per cwt. for ordinary dark brown, and 9*s.* per cwt. for common dark aloes. A parcel of fair brown gourds sold at 29*s.*, ordinary capey ditto at 12*s.* to 16*s.*, common at 6*s.* per cwt. Of another parcel of 21 boxes 10 sold at 18*s.* per cwt. for fair dark liver. Fifteen cases *Cape* aloes, which was all that was offered, sold with good competition at an advance of 2*s.* to 2*s. 6d.* per cwt.; good bright hard at 24*s.* to 25*s.*; medium to dull grossy mixed at 23*s.* down to 18*s. 6d.* per cwt. It is said that there is only one small parcel on the way at present. The new crop will be due here towards the end of June. Fine *Soetone* aloes is rather scarce. None of this quality was offered at to-day's auctions. Of 50 packages, a part consisting of fair hard in skins was bought in at 80*s.* per cwt., a bid of 67*s. 6d.* being refused. Black aloes of fair flavour, in kegs, from Bombay, was bought in at 25*s.* per cwt. There was no response at the suggestion of 20*s.* per cwt. For 3 cases

black hard stony *Moeha* aloes no bid could be obtained at 20*s.* per cwt. The lot was bought in at 40*s.* per cwt. Another parcel of East Indian aloes was bought in at nominal prices.

AMBERGRIS.—For a parcel of 16 oz. small pieces, partly grey, partly dark mixed, of weak flavour, there was no bid at 60*s.* per oz., the lot being bought in at 65*s.* per oz. nominally. A rather larger quantity than usual was sold to-day, 6 oz. of fair grey quality, good flavour, brought 105*s.* per oz., and 22 oz. of common dark, 40*s.* per oz.

ANNATTO.—Of 82 bags *seed* from Ceylon 10 sold at 2*s. 4d.* per lb. for fair bright; the holder refused to sell the other lots below that figure. Five casks *flug annatto* (West Indian)—an article now very rarely met with at the drug-sales—were bought in at 1*s. 7d.* per lb.

ASPHALTUM.—Ten cases sold to-day, "without reserve," at 13*s.* per cwt.

BENZOIN.—*Sumatra* gum was in moderate supply, about 100 cases being offered to-day, of which, however, only 16 sold, the demand being very slack; fair seconds pale almond centre, false-packed borders, brought 6*s.* 5*s.*, and old fracture ditto, fair almondy, but rather false packed, 5*s.* 12*s. 6d.* per cwt. Of *Siam* gum 45 cases were shown, and all bought in; good bright block small to medium almonds at 11*s.*, bold hard siftings in block at 8*s. 10s.*, and common grey small siftings in block at 5*s.* per cwt.

BUCHU.—A rather heavy quantity of 54 bales round buchu leaves was offered to-day, and the whole of this sold with good competition at an advance of from $\frac{1}{2}d.$ to 1*d.* per lb.; rather yellow mixed at 4*d.* to 4*s. 6d.*; fair to good green, 5*d.* to 5*s. 1d.* per lb. We understand that the buying was principally for American account, advices having been received from the States that there has been a good demand there, and that prices are higher. Of 6 bales long leaves 1 bale good genuine long green sold at 1*s.* per lb.

CALABAR BEANS.—Of 21 bags offered to-day 5 sold at 2*s. 4d.* per lb.

CALUMBA.—The only parcel sold to-day was one of 20 bags fair rather small and brownish mixed root, which brought 19*s.* per cwt. "without reserve." Besides the parcel referred to, 181 bags were bought in at 37*s.* for good bright but small washed. For small to medium, partly wormy, yellowish root from Hamburg, a bid of 20*s.* was refused, and one of 18*s. 6d.* for a slightly wormy and mouldy lot from Bombay was also rejected.

CAMPHOR (CRUDE).—The last sales in *China* camphor were at the rate of 110*s.* per cwt. c.i.f. terms for May-June shipment, showing a decided decline in value. For *Japan* camphor 137*s. 6d.* per cwt. c.i.f. for arrival was, so far as we can gather, the last price paid.

CAMPHOR (REFINED).—Following the decline in the raw material, the foreign makers have lowered their quotations $\frac{1}{2}d.$ per lb., and now ask from 1*s. 10*3/4d.* to 1*s. 10*d.* according to quantity. At auction 13 bags of 132 tablets each Japanese compressed camphor were held for 1*s. 10*d.* per lb.***

CANELLA ALBA.—Of 23 bags offered to-day 14 sold at 25*s.* for good pale mixed partly bold and split quill, and 15*s.* for small thin and broken ditto.

CANNABIS INDICA.—Firmly held, but not in very strong demand; 74 packages shown to-day were all bought in; for good green tops in bundles a bid of 8*d.* per lb. is said to have been refused, and another parcel of fair greyish tops was bought in at 5*d.*, a bid of 4*d.* being rejected for it.

CANTHARIDES.—Quiet, and about $\frac{1}{2}d.$ lower for common Chinese, of which 1 case sold, rather ordinary and dusty, at 11*s. 6d.* per lb.; for another lot 1*s. 3*d.* per lb. is asked.*

CARDAMOMS.—In very good demand. Only 147 boxes were offered to-day, and 96 of these sold at an advance of 1*d.* to 2*d.* per lb. of good qualities. The following prices were paid:—*Ceylon-Mysore*: Fine heavy pale, 3*s. 10*d.*; small to medium, long and round mixed pale, 3*s. 4*d.* to 3*s.*; smaller size ditto, partly yellow, 2*s. 4*d.* to 2*s.*; medium to bold brownish mixed, from 1*s. 11*d.* to 1*s. 9*d.*; small long and round mixed grey, 1*s. 8*d.* to 1*s. 7*d.*; brown mixed, partly split and specky, 1*s. 7*d.* to 1*s. 4*d.* *Malabar*: Medium size, fair yellow colour, 1*s. 10*d.* to 1*s. 11*d.*; brown ditto, 1*s. 7*d.* to 1*s. 8*d.* *Seed* realised from 1*s. 5*d.* to 1*s. 6*d.* per lb.***************

CASCARA SAGRADA.—There has just been an arrival of 75 bags per *Langdale* for San Francisco.

CASCARILLA.—A parcel of 21 bales was partly sold at 21s. to 23s. per cwt. for dull woody grey bark; bolder and lean grey sold at 29s. per cwt.

CASSIA FISTULA.—Scarce and much dearer; 10 bales broken and wormy pods offered to-day realised 34s. per cwt.

CHIRETTA.—At auction to-day 13 bales were bought in at from 8d. to 9d. The drug is in plentiful supply, owing to the somewhat considerable arrivals that have taken place lately.

CINCHONA.—There were several parcels of South American barks of some interest at to-day's drug sales. Thirty-two bales *flat Calisaya* bark, mostly damaged, good bright but partly small mixed, sold at 1s. 2d. for sound, and 1s. 1d. to 1s. for damaged bark, which was about 2d. per lb. below the valuation. Twenty-two serons *Guayaquil-Loxa*, ordinary rusty to fair brown quill, realised from 5½d. to 12d. per lb. Thirty-nine packages genuine *Loxa* bark realised exceedingly high rates, fair to good bright quill, 1s. 1d. to 2s. 1d., ordinary and broken ditto, 5d. to 10d. per lb. A parcel of fair to good bright *Huanoco* bark sold at 10d. to 1s. 3d. per lb., while a few lots of *Guayaquil* were bought in at a nominal price. Four packages rather ordinary South American *red bark* were all bought in, a bid of 2s. per lb. being refused for one lot. The April shipments from Java, which were stated in our last issue to have been 648,000 *kilos*, were only about half that amount—viz., 649,000 *Amsterdam lbs*. In the stock of bark in London the figure given for "East Indian" bark includes all barks of Eastern growth.

COCAINE.—The German makers are now offering *Hydrochlorate* at from 16s. 6d. to 17s. 6d. per oz., according to quantity.

COCA-LEAVES.—Nine bales good green bright but broken Truxillo were bought in at 1s. 6d. per lb. to-day. Another lot of 1 bale sold at 1s. 5d. per lb., showing some little decline in value.

COCCELLUS INDICUS.—A parcel of 80 bags was bought in to-day at 8s. 3d. per cwt.; there was no bid at 8s. The nominal price is 8s. per cwt. for fair quality, but it is not easy to effect sales even at that figure.

COLOCYNTH.—For a lot of 29 cases *Turkey* apple, partly very good pale, partly broken, 1s. 2d. per lb. was suggested as the price, and the parcel was bought in at 1s. 4d. per lb.

CONDURANGO.—Eighty-two bales broken, partly woody root, were shown to-day. They are mostly held for 6d. per lb.

COPPER (SULPHATE).—Prices have advanced to 16l. 10s. to 17l. per ton on the spot in London, according to brand, while in Liverpool 16l. 10s. to 16l. 15s. f.o.b. is quoted.

CUBEBS.—The market is quite neglected, and to effect sales lower prices would have to be accepted. Owners tried hard to place some lots at to-day's drug-sales, but were not successful in the attempt. About 65 bags were offered and bought in at 82s. 6d. to 85s. per cwt. for fair blue and brown mixed berries from Singapore, and at 30s. per cwt. for dust. A bid of 14s. per cwt. for cubebs-stalks was rejected.

CUTTLEFISH.—2½d. per lb. is required for 35 cases fair palish bone, small to medium size.

DRAGON'S-BLOOD.—Several parcels were offered to-day, and holders sold freely at lower rates, a decline of 10s. to 15s. per cwt. being established on lump, whilst finger was also cheaper. Of 20 packages, 13 sold at 7l. 10s. up to 8l. 10s. per cwt. for medium to fair bright seedy lump, a fine parcel being bought in at 11l. 5s. per cwt. Good gum in reed brought from 8l. to 8l. 10s. per cwt.

ERGOT OF RYE.—Still tending lower. Several lots being offered to-day without reserve, brought 1s. 3d. to 1s. 4d. per lb. for fair but wormy Russian, and another parcel of wormy Spanish from Vigo was bought in at 1s. 5d. per lb.

GALANGAL.—Again 1s. per cwt. cheaper. Of 141 bags scalded root which were offered, 60 sold at 17s. per cwt.

GALLS (CHINA).—Prices have advanced considerably lately, business having been done at 49s. rising up to 53s. per cwt., c.i.f. terms, for March-April shipment. Most of

this business consisted of second-hand parcels, the China export houses offering very little at present.

GAMBOGE.—None was offered to-day. Our stock is very small, and there is some idea that prices are likely to advance shortly.

GENTIAN.—We hear from Leghorn that fresh parcels of gentian-root have made their appearance upon the market. They are, however, of very small extent. Holders ask 15s. per cwt. f.o.b. Leghorn for them.

GUAIACUM.—Of 10 bags offered to-day 7 sold at easier rates for the better kinds, fair block partly good almondly bringing 8d. to 9d., ordinary pieces drossy mixed and dusty 4½d. per lb.

GUINEA-GRAINS.—Higher. Twenty bags sold to-day at 25s. per cwt.

GUM ACACIA.—The only lot sold to-day consisted of 2 bags fine bright bold frosted Australian gum, which realised 33s. per cwt. For fair pale small Trieste grain 7l. is said to be the price; and good bright amberly, partly scented, Aden gum was bought in at 60s. to 65s. per cwt.

GUM AMMONIACUM.—For 4 cases partly cakey, partly nice clean drop 55s. per cwt. is asked.

GUM ASAFOETIDA.—Our stock is now very small, and new arrivals would bring high prices, especially if of good quality. At to-day's auctions 49 cases were offered, and all sold at an advance of from 5s. to 10s. per cwt.; fair almondly pinky at 80s.; grey and dark, mixed, partly in block, fair dry, rather foul, at 62s. 6d., rising to 70s.; dark, mostly block, soft and foul, at 45s. to 50s. per cwt.

GUM KINO.—Very much dearer as compared with the rates last paid at auction. For 1 case fair bright gum returned from New York a bid of 20l. per cwt. was refused.

GUM MYRRH.—Higher, and in strong demand. Of 73 packages sorts, rather dull quality, 48 sold briskly at 94s. to 95s. per cwt. For fair native picked gum 5l. 10s. is said to be the price, and fine London picked was bought in at 10l. 10s. per cwt., nominally.

GUM ELEMI.—For a parcel of 4 cases good pale gum, a bid of 41s. is to be submitted. It is said that more has already been offered privately for this lot, the value for this quality being at present about 50s. per cwt.

GUM TRAGACANTH.—A few lots which were offered to-day were exceedingly well competed for, and brought very high prices. Good pale Bagdad seconds, 14l.; yellow ditto, 12l. 5s. per cwt.

HELLEBORE.—There has been a very good demand lately, and for powder up to 35s. per cwt. is asked.

HONEY.—*Jamaica* honey is in demand at an advance of 1s. 6d. to 2s. per cwt. Of 35 barrels 21 sold at 29s. to 30s. for red to good liquid amber, 25s. to 26s. 6d. for rather darker, and 22s. for dark liquid; 4 barrels ordinary brown candied soft *Jamaica* honey brought from 18s. to 23s. per cwt.

INDIGO.—A Calcutta report dated 19 April, states that the prospects for the coming crop are generally good throughout Bengal. The crop in the North-West is said to have suffered from caterpillars, but the extent of the damage done is not yet known.

INSECT-FLOWERS.—Higher prices come from Trieste, and the outlook for the new crop is painted in very dark colours. For closed flowers, 83s. to 85s. is asked; for half-open, 72s.; and for open flowers, 62s. 6d. per cwt., all c.i.f. terms.

IPPECACUANHA.—Of *Brazilian* root 106 bales were offered to-day, mostly of very ordinary quality, and including no fine root of any kind. Sixty bales sold at irregular rates, common woody root being about 2d. per lb. dearer, medium grades fully 4d. per lb. lower, as compared with the last auction rates. The following prices were paid:—Common woody mixed sound root, 4s. 10d. to 5s. 6d.; medium ditto, 5s. 7d. to 6s. 2d. per lb.; common damaged, 4s. 8d. to 5s. 4d.; fair medium ditto, 5s. 10d. to 6s. 5d. per lb. Of *Cartagena* root 48 packages were offered and all bought in. The arrivals in London since our last report comprise 5 bales of *Cartagena* root per *Atrato*, from *Danania*, and 61 bales *Brazilian* root per *Wordsworth* from *Buenos Ayres*.

JALAP.—There has been a fairly large arrival of jalap this week, mostly of very fair quality, a small portion of which was offered at to-day's auctions, and bought in at 1s. 6d. per lb. Seventeen bales very small and dusty mixed, partly split Tampico and Vera Cruz mixed, sold at 10d. per lb. to-day, showing a slight decline in value.

KOLA.—In small supply. Only 4 bags were sold to-day, at 5½d. per lb. for medium brown bright seed.

KOUSSO.—Four bales loose flowers, partly stalky mixed, were bought in to-day at 1s. 3d. per lb., and another parcel, also of 3 bales, at 1s. 8d. per lb.

MARSHMALLOW.—One bag root sold at 12s. per cwt.

MORPHIA.—A parcel of 375 oz. in 25 and 30 oz. tins, Macfarlan's brand in powder was offered and all bought in without mention of price.

MUSK.—Fairly steady with a moderate demand at the recent improvement. For fine thin skin blue and brown mixed *Touquin pods* of the first pile a bid of 73s. was refused, and another parcel of similar description sold at 75s. Two caddies thin brown skin, small to bold partly broken pods, fairly dry, realised 65s.; and 3 caddies old-fashioned small to bold pods with top and underskin, partly trimmed and fairly dry, brought from 50s. to 52s. per oz. Of third-pile pods 2 caddies old-fashioned top and underskin, badly trimmed, fair shape, sold at 35s. per oz.

NUX VOMICA.—Quiet. A bid of 9s. 9d. per cwt. was refused for 41 bags fair small grey seed from Ceylon, for which 10s. is required.

OLEUM (CASTOR).—For good firsts *Calcutta* a bid of 3½d. per lb. was refused. Twenty cases containing rusty tins sold at 2½d. per lb. Another lot of 50 cases seconds was bought in at 2¾d. per lb.

OILS (ESSENTIAL).—*Lemongrass* is still getting scarcer; there is very little, if anything, to be had at 2½d. per lb. now, 2½d. per lb. being the general quotation for fair native brands. For *Cassia oil* 3s. 6d. per lb. is now named as the price. This shows a decidedly firmer tendency, but we do not think that more than 3s. 4d. per lb. has yet been paid. At this figure some business was done last week. Several lots at to-day's auctions were brought in. Oil of *Star-anise* is dearer, 5s. 6d. per lb. being now the quotation on the spot, with very few sellers, while from China 5s. 5d. c.i.f. terms, is quoted for prompt shipment. Of *Bombay geranium oil* several small lots were bought in, 8d. per oz. being about the price asked. Two bottles "settlings" sold, subject to approval, at 2d. per oz. American *Peppermint oil* is very firm. HGH being held for 12s. 6d. per lb. For Japanese oil 8s. 9d. per lb. is asked, and a bid of 8s. 6d. per lb. was refused to-day for two cases. *Cinnamon oil* is in fairly good supply, 1s. 3d. per oz. being asked for good quality. For *Cinnamon-leaf oil* 1½d. per oz. was suggested as the price to-day. Five coppers so-called "essence of lemon" were disposed of, "without reserve," at 6½d. per lb., and fifteen cases *Eucalyptus oil* from Sydney brought 1s. per lb.

OPIUM.—A Smyrna correspondent writes under date of May 6 that during the fortnight then closing 81 cases talquale had been sold, partly to American buyers, at the equivalent of 12s. 1d. per lb. f.o.b., and partly to a local speculator at that of 11s. 11d. per lb. f.o.b. This last transaction shows a trifling decline in value, and the market closes unsteady and quiet, notwithstanding the fact that the reports of the growing crop are becoming increasingly unfavourable.

ORANGE-PEEL.—Fair thin gelatine sold in a small way at 9d. per lb. to-day.

ORRIS.—The demand on the Italian markets has been very strong lately, it is said, and holders have, therefore, been able to raise their prices. For selected *Florentine root*, 95s. f.o.b. Leghorn is now asked, and for ditto *Verona root* 75s. 6d., f.o.b. A parcel of 10 bags *Florentine root*, fair pale and yellowish mixed sorts, which has been offered before, was again bought in at 100s. per cwt.

OTTO OF ROSE.—A Bulgarian correspondent writes:—"I have just returned to Kezanlik from a tour through the rose-district and can assert that there is no truth in the rumour that the gardens have been damaged by the severe cold weather. The fact is that in spite of the harsh winter the

heavy fall of snow has acted as a protection from the frost which followed. There are some few gardens damaged, especially those exposed towards the north, but they are few and far between, and practically all the gardens are in very good condition. The real danger to the rose-crop is the white frost, which usually comes on in April during the budding season. This danger has been successfully passed this year, there having been but little frost. The next danger to which the crop will be exposed will be excessively dry or hot weather in the gathering season. Should this also be averted the harvest will be more than an average one. There is every probability that this will be so, as the season is very backward and danger of frosts is almost past now."

PATCHOULY.—Twelve bales exceedingly stalky dull grey leaves of little flavour sold at 1d. per lb., subject to the price defraying the charges.

PERMANGANATE OF POTASSIUM.—Market quiet at 62s. 6d to 63s. per cwt. for small crystals in second hands.

QUICKSILVER is decidedly firmer. Business has been done by the principal importers at 6l. 15s. per bottle, and a rise is anticipated. There is no second-hand metal offering at the moment.

QUININE.—On Tuesday a transaction of 10,000 oz. second-hand German bulk was made at 9¾d. per oz. on the spot. Further sales have been made to-day at 9¾d. per oz. for German bulk in second hands.

RHUBARB.—The *Telamon* has brought 22, the *Manila* 30, and the *Kaisor* 19 cases from Shanghai. The drug is in poor demand and sells with difficulty, although prices show no quotable change. Of 115 cases offered to-day 28 sold:—*Shensi*: Medium to bold fair coat, seven-eighths pinky, one-eighth dark fracture, flat, 2s. 3d.; round ditto, also 2s. 3d.; mixed sizes, three-fourths pinky grey, one-fourth dark fracture, flat, 1s. 3d.; round and flat mixed ditto, 1s. 2d.; ordinary druggists' root, 1s. 4d.; small, partly rough, even pinky grey fracture, rather spongy, round, 1s. 2d. per lb. *Canton*: Bold round, fair coat, spongy, and of brick fracture, 1s. 3d.; small, fair coat, rather spongy, three-fourths pinky, one-fourth grey, round, 1s. 2d. to 1s. 3d. *High-dried*: Small root, fair coat, three-fourths pinky, 1s. 2d.; dull, small root, 9½d. per lb.

SARSAPARILLA.—Nineteen bales *Lima-jamaica* sold at 1s. 6d. per lb. for sound, and 1s. 4d. per lb. for damaged root. For ordinary dull *Native Jamaica* a bid of 12d. per lb. was refused; and an offer of 9d. per lb. was also declined for 20 bales *Guayaquil*, which are held at 9½d. per lb.

SENNA.—The quantity of *Tinnerelly* senna offered to-day was rather small—namely, about 250 packages, of which 215 sold at full prices for ordinary kinds, while medium grades showed no change. The following prices were paid:—Fair medium green leaf, 5d. to 5½d.; small to medium greenish, partly yellowish mixed, 4d. to 4½d.; ordinary specky, small and yellowish to dark, from 3d. down to 1½d. per lb. Common *Pods* sold at 1d. per lb. *Alexandrian* senna was all bought in.

SOY.—Sales have recently been made at 1s. 3½d. per gallon, landed terms, for arrival.

SPERMACETI.—Fifteen cases rather dark block from Bremen were bought in to-day at 1s. 4d. per lb.

SQUILLS.—Of 56 bags offered to-day 38 sold, "without reserve," at ½d. to ¾d. per lb. for very common dark.

STICKLAC.—Heavy arrivals have depressed the market. No business is reported, but to sell lower prices would have to be accepted.

TAMARINDS.—The new West Indian tamarinds continue to arrive rather sparingly. At to-day's auctions 5 barrels West Indian sold steadily at 15s. per cwt.

VANILLA.—Under date of May 6 it is reported from Mahé (Seychelles Islands) that the vanilla-crop was estimated to yield from 35,000 to 40,000 lbs. Although the quantity declared for sale at the drug-auctions was very small, there have, nevertheless, been rather considerable imports lately, and indications favour a further decline in the article at an early date. At to-day's auctions only a small quantity was offered, and sold at somewhat easier prices. *Mauritius*: Fine 6 to 8 inch chocolate, slightly crystallised, 10s. 6d. to

14s. 6d.; 8 to 9 inch, 15s. 6d. to 16s. 6d.; medium brownish, 6 to 8½ inch, 7s. 9d. to 10s. Ordinary dark *Madagascar*, 5 to 7½ inch, 7s. to 8s. 6d. per lb.

WAX (BEE'S).—*Jamaica* beeswax is again from 2s. 6d. to 5s. per cwt. higher. Eleven packages sold to-day, with strong competition, at 7l. 15s. up to 8l. 5s. per cwt. for dark brown and red to good bright orange. Forty-seven packets *Madagascar* wax were bought in at 6l. 10s. to 7l. per cwt., according to quality; and 3 packages *Australian* realised 6l. 7s. 6d. to 6l. 15s. for dull grey to fair yellow mixed.

WAX (JAPAN).—Ninety-eight cases were slaughtered to-day, without reserve, at 34s. 6d. to 35s. 6d. per cwt. for fair pale squares, showing a decline of 1s. 6d. to 2s. 6d. per cwt. upon the last private rates.

THE LIVERPOOL MARKET.

CANARY-SEED, after steadily falling for some weeks, has taken a turn for the better, and 50s. has been paid for quantity.

GINGER.—About 68 bags of inferior root have been sold at 38s. 6d., but sound good root is still 40s.

GUINEA-GRAINS have recovered considerably, large sales being made at 20s., and now 21s. is asked by holders of bright sound seeds.

GUM ACACIA.—There has been more inquiry for *Soudan* sorts. Sales have been made at 54s. for hard amber to 75s. per cwt. for soft white gum in quantity.

GUM MYRRH.—Two cases fine sorts, recently imported, realised 95s. per cwt.

OIL (CASTOR).—The market has been an uneasy one during the week, value of good seconds *Calcutta* falling to 2½d., and closing at 2¾d. again, at which holders are firm. First-pressure *French* held for 2½d. to 2¾d. per lb.

QUILLIAIA.—Further sales, and 18l. is being piled in store and 17l. 15s. ex quay.

THE NEW YORK MARKET.

(*Telegram from our Correspondent.*)

NEW YORK, Wednesday night.

THERE is not very much doing here in *Copaiba balsam*, but nevertheless the market keeps very steady, and there has been no alteration in the quotations since my last report. American *Peppermint oil* (HGH) is also very steady, and it is not possible to get holders to offer anything excepting small lots. *Jalap* has suddenly swung round, and advanced in price by about 10 per cent. For fair quality 22c. is now required, although no one has yet been found to pay that figure. The demand for common kinds of *Sarsaparilla* has greatly declined, and as there is an ample stock, it would no doubt be possible to buy below the quotations recently prevalent.

CHEAP SANITAS.—At the meeting of the Holborn Board of Guardians, on Wednesday night, the Clerk read a letter from Messrs. Bates & Co., stating that having become possessed of the Sanitas Company's disinfectants, and it seeming to them that these were specially adapted for use by large public institutions, they took the liberty of offering these genuine disinfectants at a low price.

Mr. Bubb: We are already well supplied by contract.

The Clerk: You will find these exceedingly cheap.

The Rev. E. Canney: These proprietary articles are always dearer in the end. This stuff would be dearer than carbolic acid.

Mr. Davies: You don't know the price yet. But is this only a trade circular?

The Clerk: No; it is a specially-written letter, and samples of the article left in my office appear to be very good.

The Chairman: We have a contract for the supply of disinfectants, and the question really is as to whether we should do any better by purchasing this Sanitas.

The Clerk: Shilling bottles of crude Sanitas for 4d. certainly is a bargain.

The matter was referred to the committees of the various establishments of the Union.

LONDON DRUG STATISTICS.

THE following figures refer to the stock of drugs in the London warehouses on April 30, and to the imports and deliveries during the first four months of 1893 and 1892 respectively:—

Article	Stocks		Imported		Delivered	
	1893	1892	1893	1892	1893	1892
Aloes	5,032	6,897	776	1,122	1,557	1,327
. gourds	768	1,995	198	—	231	10
Anise, star	720	132	691	135	210	45
Arrowroot cks	8,836	4,334	9,537	6,703	5,983	5,297
" bxs & tins	932	697	903	941	404	1,197
Balsams cks, &c.	1,268	1,469	185	480	236	566
Bark (Cinchona), S. American cases	69	378	16	27	3	21
" bals, &c.	22,690	25,826	3,201	4,212	3,469	4,877
E. I. Ceylon, and Java cs	150	215	48	77	41	110
" bls.	18,634	20,087	15,576	13,026	12,680	14,951
Borax pkgs	5	261	20	—	276	—
Calumba	255	521	363	79	608	205
Camphor	3,280	4,752	4,186	3,360	3,633	2,940
Cardamoms chts	645	927	942	1,218	842	734
Cocc. Ind. bgs, &c.	558	403	—	25	129	112
Cream of tartar cks	10	10	2	1	3	1
Cubebes bgs	275	65	225	99	269	128
Dragon's Blood chts	100	138	45	108	63	69
Galls, China, &c. cs	2,041	2,254	2,099	1,521	555	896
Trity & Prsn. sks	2,233	2,348	1,311	1,534	1,315	1,279
Gums—						
Ammouiacum pkgs	128	132	4	137	22	69
Animi & Copal pkgs	11,254	10,504	6,574	10,264	5,419	5,757
Acaia	11,933	16,032	6,811	6,479	7,000	7,814
Asafoetida	20	480	283	191	347	231
Benzoin	2,263	2,653	1,202	963	1,036	1,278
Damar	3,814	4,258	1,885	1,554	1,651	1,566
Galbanum	32	31	1	—	—	5
Gamboge	71	83	36	195	122	57
Guaiacum	195	189	38	84	38	22
Kino	7	2	8	10	3	15
Kowrie tns	753	758	678	813	916	1,093
Mastic pkgs	22	22	20	—	19	9
Myrrh	360	282	265	65	129	143
Olibanum	3,768	5,369	5,593	4,191	2,155	3,025
Sandarac	764	882	317	836	502	388
Tragacanth	701	3,685	1,424	2,803	1,521	2,810
Gutta-percha tns	2,744	2,714	426	818	326	705
Indiarubber, E.I. tns	102	159	168	178	223	298
Madagascar	130	78	168	101	159	136
S. American	43	57	106	83	112	82
African, &c.	111	152	65	119	147	200
Ipecac cks & bgs	715	474	513	635	509	576
Jalap bls	98	76	137	109	95	70
Nux Vomica pkgs	724	1,756	455	1,707	336	416
Oils—						
Castor cks	58	107	155	197	165	165
" cs	1,500	2,916	1,334	1,660	1,534	2,141
Cocoa-nut tns	1,048	1,522	1,332	846	1,106	1,544
Olive cks, &c.	1,541	772	1,669	728	644	730
Palm tns	2	21	6	28	12	27
Rhubarb chts	699	207	182	231	490	431
Safflower bls	86	156	51	26	27	91
Sarsaparilla bls, &c.	386	431	409	438	488	337
Senna bls, &c.	1,776	2,213	1,710	1,472	1,194	1,194
Shellac Orange chts, &c.	21,913	28,990	11,834	12,027	10,215	9,898
Garnet	4,365	6,776	3,491	7,938	2,990	2,995
Button	3,011	6,139	2,831	2,498	3,246	2,846
Total chts, &c.	29,239	41,905	18,156	22,463	16,451	15,739
Sticklac chts, &c.	1,043	157	2,036	45	1,183	240
Gambier tns	630	1,645	3,765	4,106	3,643	3,955
Cutch	1,978	2,791	965	1,389	1,080	970
Turneric, Beng. tns	62	271	69	17	68	191
Madras, &c.	251	395	266	381	180	108
Total	313	666	335	398	248	299
Vermilion, chts, &c.	87	47	30	45	11	24
Wax (bees') brls & srns	772	1,437	745	1,538	910	953
" cks & cs	1,515	1,020	860	640	904	579
" cakes	42	14	—	—	—	—
" (Japan) pkgs	1,293	887	1,130	500	259	237

ACETANILIDE can be used externally for relieving neuralgia and rheumatism. Dissolve 10 grains in an ounce of eau de Cologne.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Beware of the Handbills.

Overzeal (28/70) sends us copies of correspondence which he has had with the Board of Inland Revenue in regard to the sale of unstamped cough-mixture and orange-quinine wine. The trouble appears to have commenced with a request from a Blackpool customer for a 1s. bottle of the quinine wine. Within a fortnight came the usual letter from Somerset House asking why the usual penalties should not be imposed. "Overzeal" responded as follows:—

"*Re Children's Cough-mixture.*—I shall be pleased to see label for this article, as the matter was put on my counter-bills inadvertently. I have never had any labels, nor have I ever put any mixture up for sale.

"*Re Quinine Wine.*—This is a label for the B.P. article, and is one I have always seen used, and was stated by the printers to not render the article liable, seeing that I claim no proprietary right in it, and plainly state that it is B.P. The wine is full B.P. strength, and an article that any chemist in the kingdom can supply, and when I received the letter from Blackpool I conferred with my advisers before sending it off, and they stated that there could not possibly be any case, seeing that the wine could be purchased of exactly the same quality and kind in any town in England, and that it was a recognised B.P. article."

The Board replied stating that the matter would not go further, and that the medicines were liable by being held out by means of a handbill as beneficial in human ailments. The handbill references are as follows:—

ORANGE-QUININE WINE.

Prepared According to the Formula in the British Pharmacopæcia.

The best and cheapest family tonic for indigestion, loss of appetite, &c. Agreeable to take, strengthening and invigorating.

SOLD IN BOTTLES AT 1s. & 2s. EACH.

CHILDREN'S COUGH MIXTURE AND POWDERS.

These preparations being specially prepared for children, and free from anything injurious, are recommended as safe and pleasant medicines.

In connection with these letters we refer chemists to Alpe's "Handy-book," page 59.

Agreement and Branch Shops.

SIR,—In to-day's issue are two views of the "Agreements and Branch Shops." The former, by "Mag. Cit.," leans to the side of the employer, the latter, by "Kiddlewink," to the manager's side. Of the two I think "Mag. Cit.'s" is the more nearly correct, so far as my experience goes. I, however, would go further and advise every employer not to place too much reliance on the word of his (for the time being) employé, but to insist upon having an agreement binding him not to commence business or accept other employment in that district. One assistant I had, who frequently averred that such conduct was dishonourable, and that he would not be guilty of such an act, induced me to trust him without an agreement, and he not only commenced in the same town, but in the immediate vicinity. Again, there are always to be found unprincipled members of our trade who not only accept assistants from neighbouring employers, but endeavour to induce such to break faith with their employers, in order to steal a march on their rival by offering them (assistants) an increase of salary or other favour. In view of these things, it would be safer for the

employer to come to a reasonable agreement and to ratify it by signature. I am, yours truly,
May 6.

TRUSTFUL VICTIM. (33/67.)

Re Joe Todd (Limited).

SIR,—Your correspondents of last week left out of their communication a most important point—viz., that they (the company) lost both cases. In each of the cases referred to they tried unsuccessfully to fix me with a liability which the Judge held to properly attach to the company.

Yours truly,

Carlisle, May 9.

JOE TODD.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY, page 152 et seq.

34/17. *Nemo.*—Laudanum is a synonym of tincture of opium in the British Pharmacopæcia, and the article sold under that name ought to be of the nature, substance, and quality indicated by the B.P.

34/18. *Ebor.*—The British Pharmacy Act does not authorise the recognition of any qualification for a chemist and druggist in Great Britain other than that of the Pharmaceutical Society of Great Britain. We do not think it is the fact that there are Irish pharmaceutical chemists practising as principals in Great Britain. Fines have been recovered from such.

34/19. *J. J. C.*—It is always doubtful how a judge may take such a case. You had far better pay the wages and get rid of the difficulty, though you would have a good chance of winning, we should think, if you let the matter go into Court.

35/5. *Tinct. Rhei.*—We do not consider that you would save yourself from the just penalty of the law, if you sell tincture of rhubarb without saffron, by simply describing it as "compound tincture of rhubarb." If you want to sell such an article, your duty is to make it perfectly clear to the purchaser that the preparation is deficient in that respect.

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers, containing formulæ, educational or other specific information, can be obtained from the Publisher.

25/73. *Saccharum.*—*Beetroot and Cane Sugars.*—We are not aware of any simple means for distinguishing these sugars. Both are sucrose. Some years ago a well-known pharmacist stated that he could tell whether a sugar was from beet or cane by the reduction of Fehling's solution, as he found that the former reduced the Fehling more readily. This test cannot hold good now, as "beetroot sugars contain very little, if any, glucose" (Newlands in Thorpe's "Dictionary"). Seven pounds of beet sugar are used for every 5 lbs. of that from the sugar-cane, and the former is now produced in even a purer state than the latter.

11/24. *Dental* (Barbados).—*Dorsenia.*—We have examined the local anaesthetic for dental purposes, and, unlike yourself, do find cocaine hydrochloride in it. It appears, in fact, to be a solution of that alkaloidal salt in water, with a trace of carbolic acid and menthol (very little indeed of the latter) added for preservative purposes.

180/40. *W. O. S.*—**Perfume for Liquid Soap.**—A Windsor soap perfume will be as cheap and acceptable as any. The proportions for it are:—

Oil of caraway ..	..	..	..	..	5v.
“ bergamot ..	..	..	..	..	3x.
“ thyme ..	..	..	..	..	3v.
“ cloves ..	..	..	..	..	3iiss.
					—

29/58. *Eucalyptus.*—(1) Capsicum yields 5 per cent. of Capsicin, and ginger from 6 to 8 per cent. of Gingerin. These are fair averages. (2) You are on the spot. Cannot you ascertain?

29/43. *A. N.*—The Treatment of Alopecia Areata by stimulants alone is generally followed by little or no benefit. This may be due to the disease being of a parasitic nature, and, therefore, requiring an antiparasitic remedy. Certainly, practical experience proves the value of combining some antiparasitic with the stimulant, or, still better, using first the one and then the other. The following may be applied daily, after washing the parts with soft soap and warm water:—

Resoreini ..	..	..	..	..	3ss.-3j.
Vaseline ..	..	..	..	..	3ij.
Lanolini ..	..	..	..	..	3i.
Zinei oxidii ..	..	..	..	..	3i.
Pulveris amyli ..	..	..	..	..	3i.

Fiat pasta.

After about a week this should be replaced by a stimulant such as the pilocarpine pomade, recommended by Whitla:—

Pilocarpini hydrochlor.	..	..	..	gr. xx.	
Aq. dest.	..	..	..	..	3ij.
Misce et adde:—					
Lanolini ..	..	..	..	..	3x.
Olei petrolei ..	..	..	..	..	3vj.
“ bergamot ..	..	..	..	..	3ss.
“ verbene ..	..	..	..	..	3ss.

Fiat unguentum.

The stimulation may be continued for three weeks or a month. At the end of that time if there are no signs of renewed growth of hair the antiparasitic should be again used for a week, and then the stimulant may be resumed.

28/53. *Sigma* writes:—“I am the maker of a fluid blister—something of the nature of the well-known ‘Leeming’s Essence.’ I cannot get the corks to keep the fluid in the bottles; it soaks through between the cork and the glass. The fluid is mainly composed of liq. ammoniæ fort. and turpentine. Can any of your readers suggest a remedy?” [How are the necks of the bottles shaped? Badly, we should think.]

1/12. *Jenkins.*—We cannot trace the sample to which you refer.

7/62. *W. D. C.*—**Metal-paste.**—The sample which you send us is, as far as we can make out, kieselguhr made into a stiff paste with a mixture of about 10 per cent. of its weight of soft soap and paraffin oil.

7/44. *N. T. W.*—We regret that we cannot advise you in the matter.

15/32. *Tontine.*—**Paris Kid-reviver.**—This is a paste made by colouring a petroleum residue with fine lamp-black, and scenting with oil of mirbane.

11/49. *F. A.*—We can make nothing satisfactory out of your sample. Some of these veterinary preparations are too fearfully and wonderfully compounded to admit of anything but a lengthy research, and that we have not time for.

16/14. *Subscriber* (Devon) sends (1) a sample of a Lotion for Baldness (alopecia) which “seems to have very good effects. It is used night and morning. The spots are painted about once a week with liquor ammon. fort.” This precious lotion is liq. hydrarg. perchlor. gr. ij. to 3j., with as much ammonium chloride. (2) You must please say what wood-stains you require. We have published formulae for most of them. See also reply to *J. E. M.*

20/3. *S. C. D.* informs us that for **Destroying Weeds** in gravel foot-paths he and his neighbours “used to apply a thin dressing of ‘copperas’ refuse (iron pyrites) which was found in considerable quantity on the seashore. This refuse was simply the fine siftings from the larger pieces of the pyrites, and the dressing effectually prevented the growth of weeds for many years. What is the active principle of this iron pyrites that destroys vegetation so effectually, and can it be produced artificially and cheaply?” A sample is sent to us and we find that it is simply magnetic iron ore. It is an accepted fact in agriculture that a small quantity of iron is good for the growth of vegetation, but an excessive quantity kills plants. It is probably upon this property that the action of our correspondent’s “copperas” is based. At all events, we should advise a trial of ground sulphate of iron (the common commercial kind) upon weeds in garden-paths, or it may be used in strong solution. It should be noted that during this dry season weed-killers are not acting as well as usual. The ground should first be well watered; then there is no reason to complain of the weed-killers.

26/38. *Incubator.*—You can make a **Poultry-powder** (for promoting egg-laying, generally strengthening the fowls, &c.) by mixing together in due proportions sulphur vivum, liquorice-powder, wheat-flour, fenugreek, and caraway. We find these in your sample.

181/20. *Mortar and Pestle.*—**Camphorated Furniture-oil.**—It is impossible, without considerable expense (which we do not see that we are called upon to make) to give you complete analyses of the two samples which you send us. We have examined them carefully, and upon the following basis and some synthetical experiment on your part, good preparations may be concocted:—

(A)						
Linseed oil ..	..	..	..	..	..	3viii.
Oil of turpentine ..	..	..	..	..	..	3ii.
Solution of ammonia ..	..	..	..	..	..	3ij.
Spirit ..	..	..	..	..	..	3iss.
Hydrochloric acid ..	..	..	..	..	..	3ss.
Spirit of camphor ..	..	..	..	..	..	3ss.
Water to ..	..	..	..	..	..	3xx.

Shake the oils with the ammonia and spirits. Mix the acid with the water, and add gradually and with constant shaking.

This oil is apparently kept for a long time before it is sent out, as it contains terebene, doubtless arising from the action of the acid on the turpentine.

(B)
This polish is the white soap and wax one, such as:—

Resin ..	..	..	..	..	..	3ij.
Bees-wax ..	..	..	..	..	..	3ij.
White soap ..	..	..	..	..	..	3i.
Salt of tartar ..	..	..	..	..	..	3ss.
Water to ..	..	..	..	..	..	3xx.

Boil all together until creamy, and before it cools shake in the following:—

Turpentine ..	..	..	..	..	..	3x.
Camphor ..	..	..	..	..	..	3ii.
Spirit ..	..	..	..	..	..	3ii.
Water to ..	..	..	..	..	..	3xl.

30/46. *Inquirer.*—We cannot take upon ourselves to recommend “safe investments.” Consols and the debentures of the great railway companies are about all the investments left which retain the reputation of absolute safety, and they are not very remunerative.

23/72. *Subscriber (Carlisle).*—**Berlin Black.**—Seeing that you have varnish-works, you doubtless know all the details included in the following formula:—Run 45 lbs. of asphaltum for six hours in a set-pot. Boil 6 gallons of linseed oil with 6 lbs of litharge until it strings well; pour into the set-pot with the asphaltum, and boil the whole until it will set hard between the fingers; then allow to cool, and thin with 25 gallons of turpentine. There is a good figure of a set-pot in R. Ingham Clarke & Co.'s circular inserted in our Winter Issue. These pots are made of copper, and are about six or eight times the capacity of the amount of resin or asphalt (technically "gum") generally "run" in them. The "gum" is first broken up into small pieces, and the "running" consists in heating it strongly for a period which is determined by experience. This is a business in itself and we cannot teach it in an "answer to a correspondent." The same remark applies to the boiling of the oil and mixing.

28/5. *Phosphate.*—**Cod-liver Oil Emulsion.**—The preparation made with eggs keeps perfectly well if sufficient brandy is added to it. The emulsion which you refer to is understood to be made with acacia. Probably the *National Formulary* recipe may suit you. It is:—

Cod-liver oil	..	..	..	..	..	..	3 viii.
Powdered acacia	..	..	..	..	..	..	3 iss. (troy)
Syrup of tolu	..	..	..	..	..	..	3 ii.
Flavouring	..	..	..	..	..	..	a sufficiency
Water to..	..	..	..	..	..	..	3 xvij.

The acacia is triturated with 3 oz. of water, and the cod-liver oil and syrup worked in alternately. So on *secundum artem*. The secret of success in making the emulsion entirely depends upon the amount of trituration to which you can subject the oil. The *N. F.* method of adding oil and syrup alternately we do not like, the latter being rather against a good emulsion. Better replace it with saccharin. Quillaia assisted by eggs on the B.P.C. plan makes a very good and permanent emulsion. Use $\frac{1}{2}$ oz. of tincture of quillaia to each pint of oil along with one yolk of egg.

29/64. *R. P.*—“Hunts” simply referred to the “Photographic Notes” which appear in THE CHEMIST AND DRUGGIST during the season. See vols. xl. and xli.

26/71. *J. E. M.*—**Oak-stain.**—Vandyke brown, $2\frac{1}{2}$ oz.; carbonate of ammonia, 1 oz.; bichromate of potash and washing-soda of each $\frac{1}{2}$ oz.; wafer, 1 quart. Boil together for ten minutes and strain, making up to 1 quart with water. **Mahogany-stain.**—Alkanet, 1 oz.; Cape aloes, 2 oz.; dragon's blood, 2 oz.; methylated spirit, 26 oz. Digest for a week, and filter. A watery stain is made by boiling 4 oz. of dragon's blood and 2 oz. of caustic soda in 10 oz. of water; make up to a quart and pour off the clear liquor. Nitric acid is sometimes first applied to the wood. **Walnut-stain.**—Dissolve 2 oz. of potassium permanganate and the same of Epsom salts in a quart of water. This makes a very good stain. Pretty stains are now made from aniline and similar colours, to the solutions of which about 1 per cent. or more of caustic soda is added.

176/12. *J. Stoddart.*—Many thanks for your pleasant letter. We are engaged on the work you wish for.

PHEDURETIN is the name given by Orient, a Hungarian pharmacist, to a new phénol derivative which, in doses of 8 to 15 grains twice daily, has proved to be a valuable remedy for sick-headache.

GALLANOL, an anilide of gallic acid, is recommended on the Continent for the treatment of psoriasis and eczema. It is a crystalline substance, without colour, and having a bitter taste. It is only slightly soluble in cold water, but is more soluble in alcohol, ether, and alkalies, forming with the last-named a brown solution. It may be applied as an ointment with vaseline (strength from 1 in 5 to 1 in 30) or, in the case of psoriasis, after washing the spot with black soap it may be painted with a mixture of gallanol and chloroform, and after drying, the surface coated with traumaticin.

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

TUESDAY, May 16.—*Pharmaceutical Society's* annual dinner, Whitehall Rooms, Hotel Metropole, at 6.45 for 7 P.M.

TUESDAY, May 16.—*Royal Institution of Great Britain*, at 3 P.M. Professor R. K. Douglas on “Modern Society in China.”

WEDNESDAY, May 17.—*Royal Microscopical Society*, 20 Hanover Square, London, W., at 8 P.M. Exhibition with the Projection Microscope, by Sir David L. Salomons. “Notes on Rotifers,” by Mr. C. Rousselet

WEDNESDAY, May 17.—*Pharmaceutical Society*. Annual meeting at 17 Bloomsbury Square, W.C., at 11 A.M. for 12 noon. Business: To receive the annual report and financial statement, and elect auditors and fourteen members of Council.

THURSDAY, May 18.—*Chemical Society*, 8 P.M. “Observations on the Production of Ozone during Electric Discharge through Oxygen,” by W. A. Shenstone and M. Priest. “The Relative Strengths or Avidities of some Weak Acids,” by Dr. Shields. “The Boiling-points of Homologous Compounds” (part 1), by Dr. James Walker.

FRIDAY, May 19.—*Royal Institution of Great Britain*, at 9 P.M. Alfred Austin, Esq., on “Poetry and Pessimism.”

Gazette.

PARTNERSHIPS DISSOLVED.

Cohen, C. F., and Cohen, S. F., mineral-water manufacturers and beer-bottlers, Caledonian Road, N., and St. George's Road, Camberwell, S.E., under the style of Cohen Brothers.

May, W., and Billing, G. W., drug, spice, and general merchants and drapers, Great Tower Street, E.C., under the style of William May & Co.

Moore, D., and Wetherill, W., mineral-water manufacturers, York, under the style of Moore & Wetherill.

Thomas, J. B., Thomas, E., and Thomas, F. R., oil merchants, late at the Grove Oil-works, Southwark, S.E., and Eagle Oil-works, Mill Street, Lambeth, S.E., under the style of Wm. Thomas & Co.; so far as regards F. R. Thomas.

Wood, J. C., and Burns, R. J., Sunderland, Durham, surgeons, under the style of Wood & Burns.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Jones, James Alfred, Runcorn, mineral-water manufacturer.

Watts, J. Hunter, & Co., Seething Lane, E.C., chemists and merchants

ADJUDICATIONS.

Coxwell, John Edward Grinfield, Worthing, physician.

Jones, James Alfred, Runcorn, mineral-water manufacturer.

Rickarby, Arthur George, Abingdon, pharmaceutical chemist.

MR. D. S. C. REID, chemist, City Road, Glasgow, has passed the first Scotch Triple Medical with honours in chemistry. He has also gained first-class certificates in physiology and *materia medica* at Anderson's Medical College.

PUBLIC ANALYSTS AND PHARMACY.—“A. H. A.” in reviewing Mr. Cripps's book in the *Analyst*, says it “will be found very useful to public analysts, who are rather apt to give less attention to that portion of their duties bearing on pharmacy, and especially galenic preparations, than is desirable.” That is an opinion worth remembering when some public analysts report on pharmacopoeial medicines.

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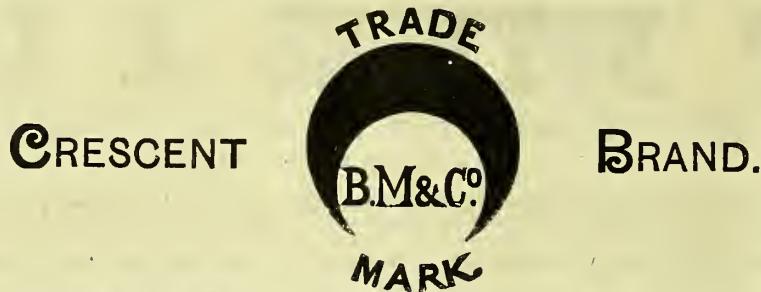
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	Per gross.		Per gross.		Per gross.
Pil. Aloes Barb.	1/6	5 Pil. Asafoetidae Co.	1/6	8 Pil. Ferri Carb.	1/6
” ” et Asafoetidae	1/6	6 ” Coloc. Co.	1/0	9 ” Hydrrarg.	1/6
” ” et Ferri	1/6	7 ” Coloc. et Hyos.	1/1	11 ” Rheo Co.	1/9

NON-OFFICIAL FORMULA

	Per gross.	Per gross.	Per gross.	Per gross.	Per 1,000
68 ANTIBILIOUS.	115 As 114, with 1 gr. Calomel	1/6	303 DANDELION, CHAMOMILE, and RHUBARB	1/6	140 LITTLE LIVER.
Ext. Coloc. Co., 34 gr.	116 ” 3 gr.	1/6	Ext. Tarax., 1 gr.	1/6	Aloin, 1-10 gr.
Hyoscy., 1 gr.	117 ” 1 gr.	1/6	” Anthem., 1 gr.	1/8	Jalapin, 1-10 gr.
Pil. Hydrrarg., 1 gr.	135 CASTOR OIL.	1/6	P. Rheo., 1 gr.	1/8	Podophylin, 1-5 gr.
Pulv. Ipecac., 1 gr.	P. Rheo., 1 gr.	1/6	Pot. Sulph., 1 gr.	1/8	Ext. Hyoscy., 1-20 gr.
103 ANTIBILIOUS with PODO.	Pot. Sulph., 1 gr.	1/6	P. Saponis., 1 gr.	1/8	Nucis Vomic., 1-20 gr.
PHYLIX.	Ol. Ricini, 1/2 gr.	1/6	” Crotonis., 1-10 gr.	1/6	Ol. Resin. Capsici., 1-20 gr.
(VEGETABLE ANTIBILIOUS).	” Crotonis., 1-10 gr.	1/6	304 DINNER and DIGESTIVE.	1/6	
Pedophylin, 1 gr.	146 COCHLEAR CO., 4 and 5 gr.	1/6	Aloes Socot. Ext., 1 gr.	1/8	305 NEURALGIA and TIC.
Pil. Ihei Co., 3 gr.	P. Gamboog., 2 gr.	1/6	Pil. Rheo. Co., 1 gr.	1/8	Ext. Sulfur., 1 gr.
Ext. Hyoscy., 1 gr.	” Jalapin., 1 gr.	1/6	Ext. Gentian., 2 gr.	1/8	Ext. Belladon., 1 gr.
” Tarax., 1 gr.	P. Saponis., 1 gr.	1/6	179A FEMALE.	1/8	” Colchici. Acet., 1 gr.
105 ANTIBILIOUS.	” Zingib., 1 gr.	1/6	Aloes Barb., 1 gr.	1/8	” Hyoscy.
Ext. Coloc. Co., 23 gr.	Ol. Caroph., 1 m.	1/6	” Ment. Sulph., 1 gr.	1/8	Camphora, ea 1 gr.
Hyoscy., 1 gr.	168A COUGH.	1/6	Ext. Hellebore., 1 gr.	1/8	
Pil. Hydrrarg., 1 gr.	P. Ipecac. Co., 11 gr.	1/6	P. Myrrha., 1 gr.	1/8	58 STEEL and PENNYROYAL.
Hyd. Subchlor., 1 gr.	” Gum. Ammoniac., 13 gr.	1/6	” Canellae., 1 gr.	1/8	Pil. Aloes et Ferri, 4 gr.
114 APERIENT.	” Scille., 1 gr.	1/6	” Zingib., 1 gr.	1/8	Ol. Pulegii., 1 gr.
Pulv. Gamboog., 1 gr.	Sapo. Hispan., 2 gr.	1/6	189A GOUT and RHEUMATIC.	1/6	
” ” Barb., 1 gr.	Ext. Tarax., 1 gr.	1/6	Ext. Colchic. 2 gr.	1/6	145 TONIC.
” Colocynth., 1 gr.	Pil. Rheo. Co., aa gr. H.	1/6	Ammon. Carb., 1 gr.	1/6	Cinchonidine Sulph., 1 gr.
” Jalape., 1 gr.			Guaiac. Resin., 4 gr.	1/6	Pil. Aloes Socot., 1 gr.
” Saponis., 1 gr.			P. Opii., 1 gr.	1/6	Ferri Sulph. Eksio., 13 gr.
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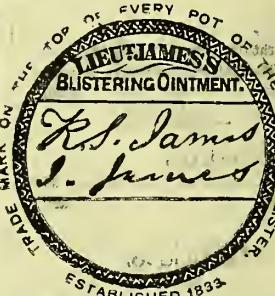
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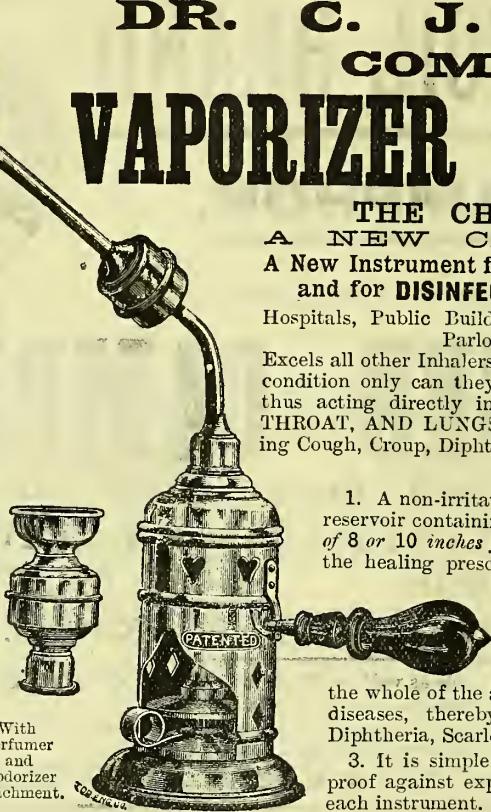
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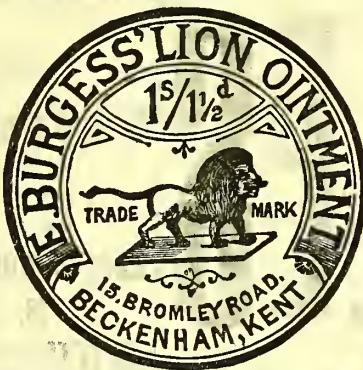
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Notice is hereby given that all those infringing my rights, either by preparing or selling spurious Ointment, Pills, or Nerve Tonic, will be at once proceeded against.

H. J. DEACON, Chemist,

15 BROMLEY ROAD, BECKENHAM, KENT.

November 14, 1892.

BEECHAM'S TOOTH PASTE.

All Chemists, Druggists, and Stores should Stock this new article, which is being well advertised, and, as it is a really good speciality, will shortly be in great demand. It is put up in collapsible tubes, retail price 1/-, and can be obtained from any Wholesale House.

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The most saleable Patent Medicine in the market.

In Boxes 9½d., 1s. 1½d., and 2s. 9d. each.

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Write for revised Price List of Dispensing Bottles, &c.

SAMPLES ON APPLICATION.

Special Quotations for Large Quantities.

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DISPENSING
CITRATE
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OIL &
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STOPPED
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BOTTLES
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GREAT VARIETY FOR SPECIALITIES.

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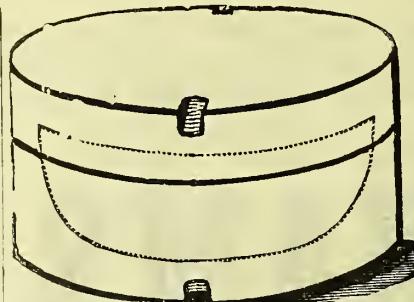
WAREHOUSE—WEST INDIA IMPORT DOCK, E.

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TOOGOOD'S
IMPROVED PATENT

EARTHENWARE
COVERED POTS

Are claimed to be the most
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ORDINARY THICKNESS—

1 dr.	2 dr.	1	1	1½	2	2	3	4	6	ounces.
1/8	1/8	1/8	1/8	1/10	2/-	2/3	2/10	3/8	4/6	5/6 per doz.

THIN FOR DISPENSING—

1/7	1/9	1	1½	2	2/5	3	4	8	ounces.
			2/2			3/-	4/-	5/-	6/- per doz.

Owing to the increasing demand
for our Patent Pots, we have in-
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for Dispensing.

These Pots are beautifully
glazed and finished, and, being
very light, are specially adapted
for sending by post.

TOOGOOD'S BRONCHITIS KETTLES. Write for New Season's List.

TOOGOOD'S CHEST PROTECTORS. Write for New Season's List.

TOOGOOD'S INDIARUBBER HOT-WATER BOTTLES. Write for New Season's Lists.

TOOGOOD'S INHALERS. Write for Special List.

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BREFFIT'S

"LA SPECIALITE"

FEEDING BOTTLES.

NEW SERIES

TO MEET THE PREVAILING TRADE COMPETITION.

FITTED WHITE RUBBERS

No. 85.—Green Glass Bottle, Wood-top Cork	...	...	...	...	21/- per gross.
” 86.—White ” ” ” ”	...	...	...	...	23/- ”
” 87.—Green Glass Bottle, SCREW GLASS STOPPER	24/- ”
” 88.—White ” SCREW GLASS STOPPER	26/- ”

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EACH BOTTLE IN PAPER BAG.

PLEASE QUOTE NUMBER IN ORDERING.

SEND FOR OUR NEW ILLUSTRATED PRICE LIST, JUST ISSUED.

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We supply over 100 Various Kinds Attractive Feeding Bottles.

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GLASS BOTTLES

GOOD AND CHEAP.

From Stock
in London or
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the works.

THE NEW SHAPE FLATS,

With rounded edges, or the ordinary kind, plain or graduated.
3 and 4 ounce :: :: :: :: 8/- per gross.
6 and 8 " " " " 9/-

WHITE MOULDED PHIALS.

1 oz.	1 oz.	1½ oz.	2 oz.
3 6 ..	3 9 ..	4 6 ..	5 3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7 - ..	8 - ..	9 - ..	9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent
Carriage Free to any part of England.
Sample Bottle sent free on application.

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25 Francis St., Tottenham Court Road, LONDON, W.C.
Established 50 Years. Bankers—London and Westminster Bank.

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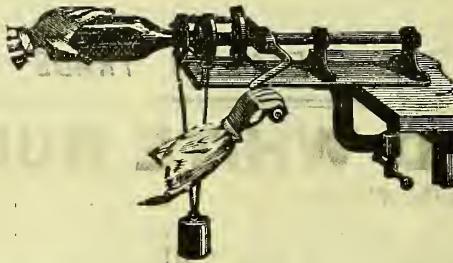
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The only Machine
which leaves no crease
or pleat on the
Capsule.



Can be fixed to any
Counter.

A single pull of the lever
is sufficient
to fix the Capsule.

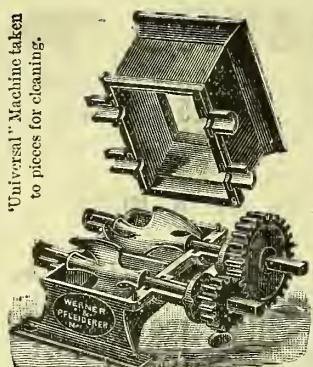
Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

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Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR
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AND MASSES
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Consistency.



Size 3, Type 1., for 1-lb. Mass.

PILL MASSING MACHINES.

PILL
PIPER,
CUTTERS,
ROUNDERS, COATERS,
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POWDER-SIFTERS
(WITH INTERCHANGEABLE SIEVES),
And every Accessory for the Pill Room.

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ROUND, OVAL, AND SQUARE SHAPED BOXES

FOR POSTAL AND GENERAL PURPOSES.

ALSO PATENT BARREL PACKAGES WITH METAL ENDS, FOR DRY GOODS

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Makers of best class of Violet Powder Boxes, and high-class goods of
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STEAM WORKS, 2 PRINTER'S BUILDINGS.

[21]

**"THE GAMGEE"
VACCINATION PAD
ABSORBENT AND ANTISEPTIC**



Patent Appn. No. 4160.

DIRECTIONS FOR USE.

Gently warm the strips of plaster, place the pad in position, as in drawing, and then fasten the tapes to the desired tightness.

**RETAIL
PRICE 4^D EACH**

THIS PAD

Has been designed to protect the arm after vaccination. It is easily applied, comfortable in use, and, while affording thorough protection, adapts itself readily to the movements of the arm. When once properly fastened, while securely retaining its original position, it will afford ready access for dressing or examining the part.

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Sole Wholesale Agents—S. MAW, SON & THOMPSON.

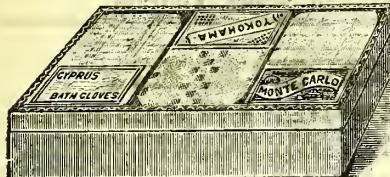
BARCLAY & SONS, LIMITED.

SUMMER SEASON, 1893.

We beg to draw the attention of our friends to the
GLASS-TOP BOXES OF ONE DOZEN PAIRS

ASSORTED BATH GLOVES

Which we figure below:



Elegant Pink Show Cases, containing 1
doz. pairs 1/- Gloves, 5/9 each.

Maroon Calf Show Case, containing 1 doz.
pairs 6d. Gloves, 3/6 each.

The Gloves alone
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For 1/- Case, 5/- doz. pairs. For 6d. Case, 2/- 11 doz. pairs.

CENTRAL DEPOT:—95 FARRINGDON STREET, LONDON, E.C.

Trade Mark.



Registered.

**THE
ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH
12x PALL MALL EAST, LONDON, S.W.**

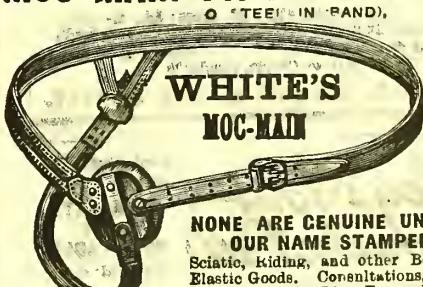
SOLE AGENTS FOR

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Tubes, 1s. each. Half Tubes, 1s. each. Pomades in vials, 1s.
HUMAN VACCINE, from healthy children only, microscopically examined and
source quoted. Tubes two-thirds full, 1s. 2d. each; Tubes one-third full 1s.
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spurts), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per
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EDWARD DARKE, Secretary.

Office hours, 10 to 4. Saturday, 10 to 2.

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MOC-MAIN PATENT LEVER TRUSS
(STEEL IN BAND).**



Highly recom-
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Medical Men.

Equally comfort-
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or reclining posi-
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All our Trusses are
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NONE ARE CENUINE UNLESS BEARING
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Sciatic, Kidney, and other Belts. All kinds of
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See also page 114, March 18 issue.

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(VIN. AURANT., P.B.).
Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz.), at 9s. per dozen, bottles included. Casks and cases extra, and returnable.
Sample on application. Special quotations to large buyers.
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Guaranteed free from all injurious impurities. The Purest in the World.
SEND FOR ANALYSIS AND TESTIMONIALS.
SALAMON & CO., LTD., CHEMICAL MANUFACTURERS,
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FREDK. FINK & CO.
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SPECIALITIES: Glycerine — Gum Arabic —
Gum Tragacanth — Pure Beeswax — Honey.

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BRIGHTENS FURNITURE WITH LITTLE LABOUR.
In Tins—1d., 7/- gross. Stone Bottles—1d., 8/- gross; 3d., 2/- dozen; 6d., 4/- dozen; 1s., 7/- dozen. It is sure to please and increase your trade.
Every Chemist should send for Sample order, 8 dozen assorted as required.
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Bromley's Gout & Rheumatic Pills
FREE Printing of Chemists' own Bills.
14 Sir Thomas's Buildings, Liverpool, Eng.

Established 1807.
WILL CURE.
CHEAPEST.
MOST PROFITABLE.
Not Sold under Price on Box.
Send Hand-bill or Labels.

PRECIPITATED CHALK, WHITEST & PUREST.
CHEAPEST SELLERS IN THE MARKET.
ALSO CHEMICALS, DRUGS, AND OILS.
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EADE'S GOUT and RHEUMATIC PILLS
Are the safest and most effectual remedy advertised for
GOUT, RHEUMATISM, AND ALL MUSCULAR PAINS.
GEORGE EADE, 72 GOSWELL RD., E.C.
Counter Bills and Show Cards on application.

VACCINATION PADS.
The following Advantages are claimed for this Protector—
1. It protects the arm from external violence.
2. It absorbs all discharges. 3. Most important of all, it reduces the risk of septic absorption and blood-poisoning. 4. It cannot be used a second time, like ordinary "shields," which it is too often the dangerous practice to use again and again. 5. Lastly, and not its least advantage, is its extreme cheapness. [3]
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THE "ORIGINAL CANISTER" & ROASTED COFFEES
These Coffees have been before the Public for nearly 50 years, and are the very best of their kind.
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BLAIR'S GOUT & RHEUMATIC PILLS
Cure Gout, Rheumatism, Sciatica, Lumbago, Neuralgia.
The Excruciating Pain is quickly relieved, and cured in a few days, by these celebrated Pills, well known as the Great Remedy for the above Complaints.
NO POISONOUS INGREDIENTS.

SOLUTION OF IRON.
An infallible remedy for Anæmia, Poorness of Blood, Indigestion, Hemorrhages, &c. Easily taken even by children. Does not affect the stomach, cause CONSTIPATION, nor BLACKEN THE TEETH.
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A bright Fixing Liquid for the special training of the
MOUSTACHE. Invaluable to Medical Men, repelling
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Brush, Pom.-Hongroise, &c., at 2/-, 3/-, 5/-, 7/-, &c.
Most successful Novelty, &c.—sample post free 15 stamps.

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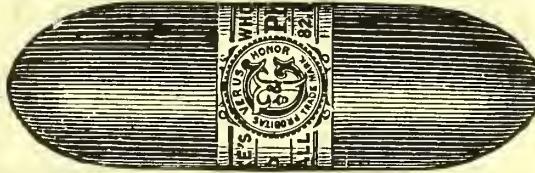
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MAY 20, 1893,

and will be in addition to the usual large circulation of THE CHEMIST AND DRUGGIST throughout the British Empire at home and abroad.

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